# TA-N9000ES

# SERVICE MANUAL

*US Model*
*Canadian Model*
*AEP Model*
*UK Model*
*E Model*
*Australian Model*
*Chinese Model*

Photo: GOLD model

## SPECIFICATIONS

### AUDIO POWER SPECIFICATIONS

**POWER OUTPUT AND TOTAL HARMONIC DISTORTION:**
**With 8 ohm loads, both channels driven, from 20 - 20,000 Hz; rated 120 watts per channel minimum RMS power, with no more than 0.03% total harmonic distortion from 250 milliwatts to rated output (USA model only).**

### Amplifier section

**POWER OUTPUT**

**NORMAL mode**
(4/8 ohms 20 Hz ~ 20 kHz, THD 0.013%)
Front: 115 W + 115 W
Center: 115 W
Rear: 115 W + 115 W

**BTL mode** (8 ohms 1 kHz, THD 0.013%)
Front: 200 W + 200 W
Center: 120 W

**Speaker Nominal Impedance:**
Front, Rear, and Center:
4 to 16 ohms (NORMAL)
8 to 16 ohms (BTL)

**Input sensitivity**
1 V ±1 dB

**Frequency response**
20 Hz ~ 20 kHz ±0.2 dB (at 1 W)
10 Hz ~ 100 kHz +0 –3 dB (at 1 W)

**Inputs**

| Input Jack | Sensitivity | Impedance |
|---|---|---|
| REAR | 1 V | 45 kilohms |
| CENTER | 1 V | 45 kilohms |
| FRONT | 1 V | 45 kilohms |
| EXTRA 2ch | 1 V | 45 kilohms |

### General

**System** Pure-complementary High Power Legato Linear SEPP

**Power requirements**
120 V AC, 60Hz

**Power consumption**
4.5 A

**Dimensions** $17 \times 6\,^{7}/_{8} \times 17\,^{7}/_{8}$ in. (430 × 173.5 × 453 mm) including projecting parts and controls

**Mass (Approx.)**
52 lbs 15 oz (24 kg)

**Supplied accessories**
Control A1 cable (1)

Design and specifications are subject to change without notice.

## 5 CHANNEL POWER AMPLIFIER

MICROFILM

SONY®

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与安全有关的零部件须知

在原理图上用阴影及 ⚠ 标记来识别的零部件在安全操作上是具有关键性的。这些零部件要用本手册中所示的部件号对应的索尼零部件进行更换。

在安全操作上具有关键性的电路调整与索尼公司出版的维修手册完全一致。在更换关键零部件时或怀疑动作失常时，请进行这些调整操作。

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

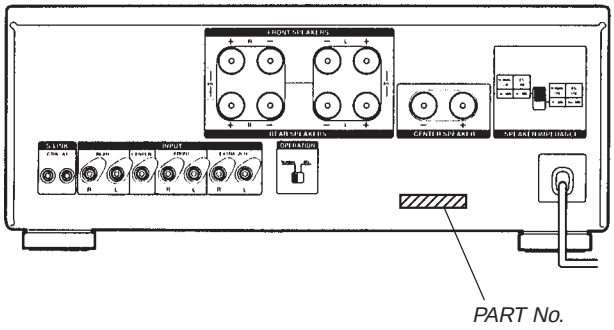
**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**

**LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.**

# SECTION 1
# SERVICING NOTES

## MODEL IDENTIFICATION

**– Rear view –**




| MODEL | PART No. |
|---|---|
| US, Canadian models | 4-211-114-1☐ |
| Except US, Canadian models | 4-211-114-2☐ |

### Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

## LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

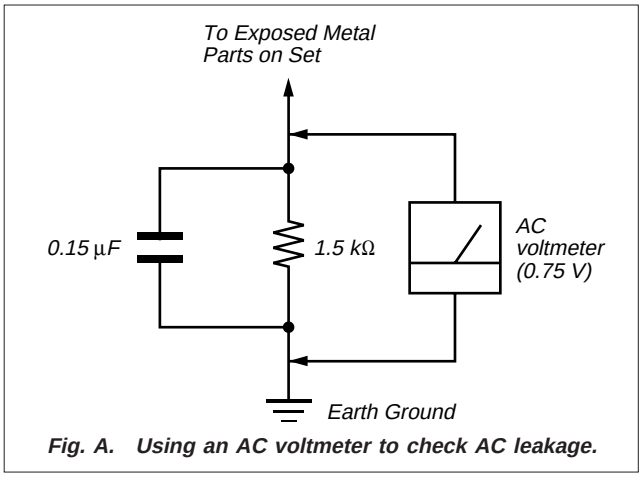
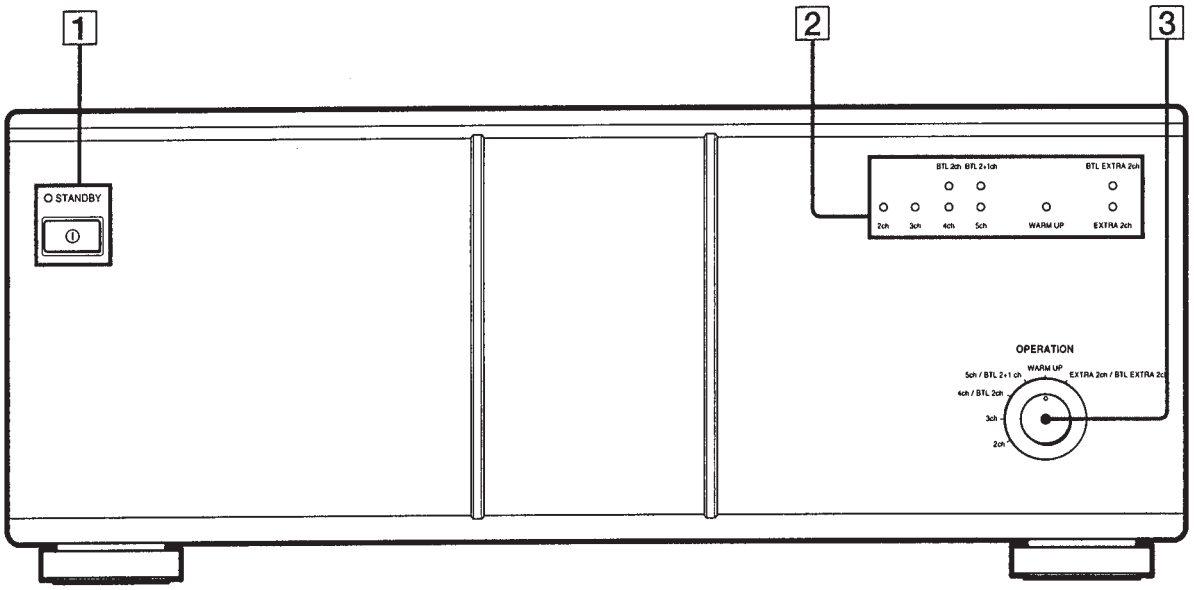



***Fig. A. Using an AC voltmeter to check AC leakage.***

# SECTION 2
# GENERAL

This section is extracted from instruction manual.




**1 ⏻ switch**

Press to turn the power amplifier on and off.

**STANDBY indicator**

Blinks momentarily after ⏻ is pressed to turn the unit on, then goes out to indicate that the unit is ready. If you make Control A1 connections between the power amplifier and the TA-E9000ES AV Control Amplifier, this indicator lights red when control amplifier is set to standby mode.

**2 Operation indicators**

Light to indicate the operation mode selected with the OPERATION control. Blink if you select a mode that cannot be used.

**3 OPERATION control**

Turn to select the channels you want to use.

**When the OPERATION selector on the rear panel is set to NORMAL**

| Position | Output Channels |
|---|---|
| 2ch | FRONT (L/R) |
| 3ch | FRONT (L/R) + CENTER |
| 4ch | FRONT (L/R) + REAR (L/R) |
| 5ch | FRONT (L/R) + CENTER + REAR (L/R) |
| EXTRA 2ch | Signals input to the EXTRA 2ch INPUT jacks are output from the FRONT (L/R) speakers. |

**When the OPERATION selector on the rear panel is set to BTL**

| Position | Output Channels |
|---|---|
| BTL 2ch | Signals input to the FRONT or REAR INPUT jacks are output from the FRONT (L/R) BTL speaker connections. |
| BTL 2ch + 1ch* | Signals input to the FRONT or REAR INPUT jacks are output from the FRONT (L/R) BTL speaker connections. Signals input to the CENTER INPUT jacks are output from the CENTER SPEAKER jacks. |
| BTL EXTRA 2ch | Signals input to the EXTRA 2ch INPUT jacks are output from the FRONT (L/R) BTL speaker connections. |

**WARM UP**

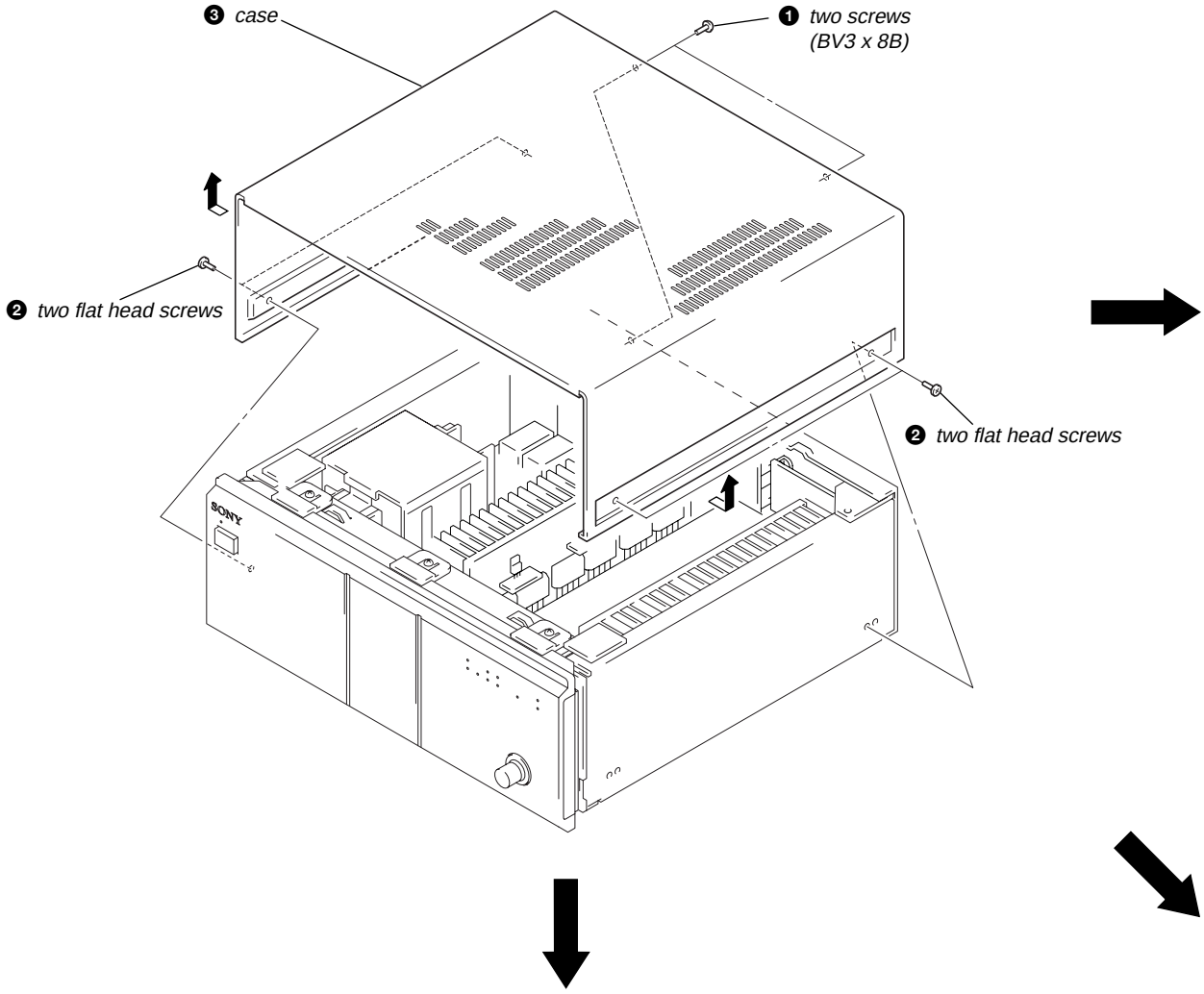
Set OPERATION to this position (instead of turning the power off) to keep the circuitry warm when the power amplifier is not being used. This enables you to enjoy excellent sound quality immediately the next time you use the power amplifier.
The warm up mode works the same during both NORMAL and BTL operation.

* *When OPERATION is in this position and a center speaker is connected, the center speaker gain level drops about 6 dB. When this happens, raise the level of the center speaker on the AV control amplifier (TA-E9000ES, etc.) connected to this amplifier and adjust the volume accordingly.*

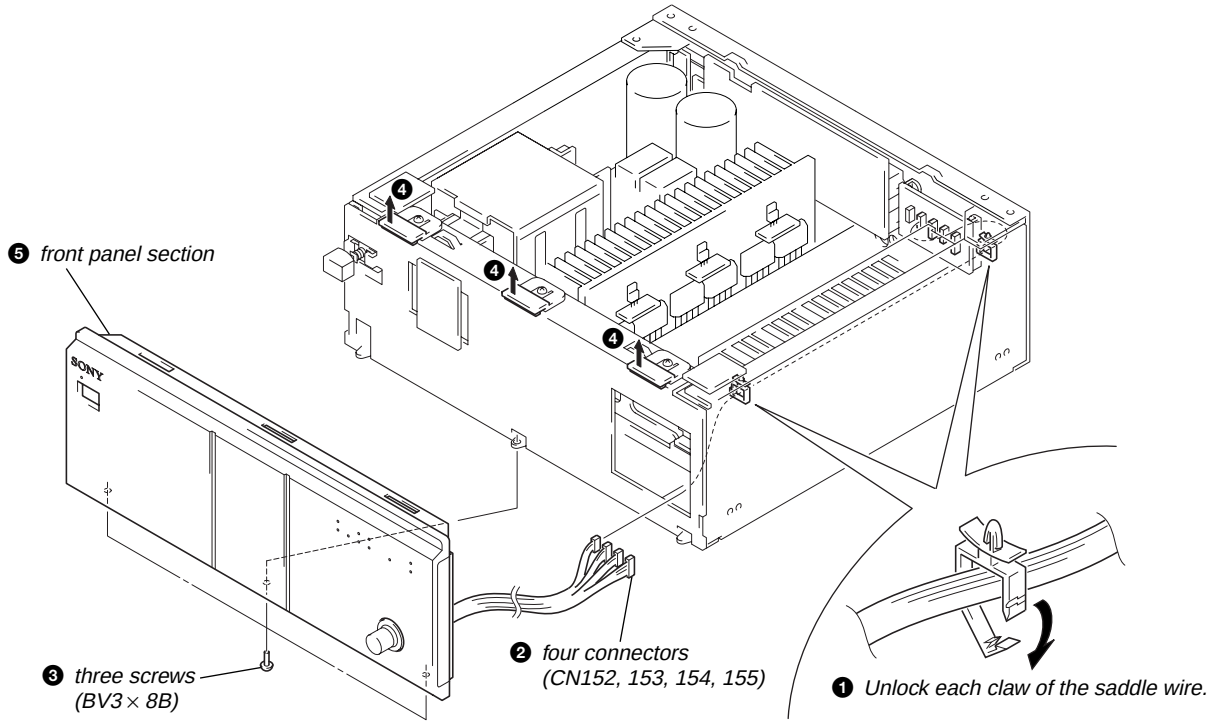
# SECTION 3
# DISASSEMBLY

**Note:** Follow the disassembly procedure in the numerical order given.

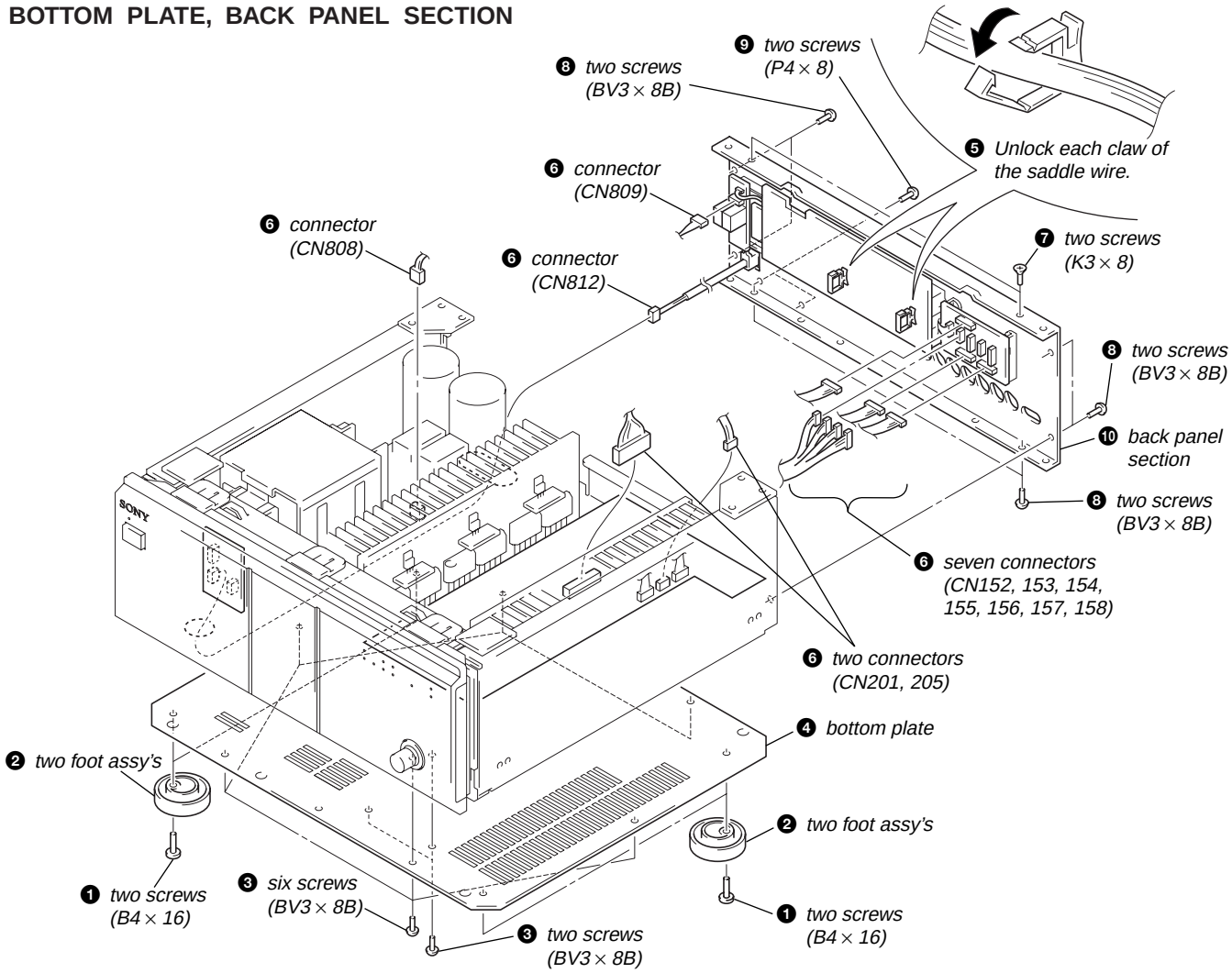
## CASE



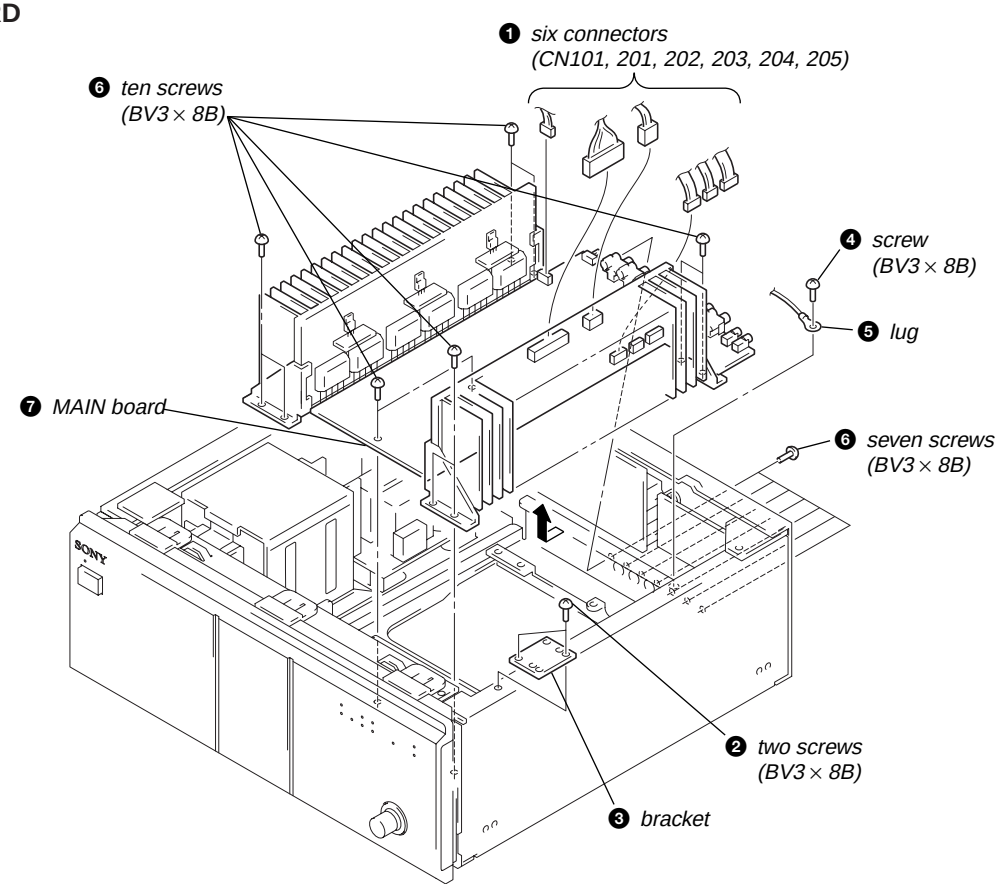

## FRONT PANEL SECTION



## BOTTOM PLATE, BACK PANEL SECTION


8 two screws (BV3 × 8B)
9 two screws (P4 × 8)
5 Unlock each claw of the saddle wire.
6 connector (CN809)
6 connector (CN808)
6 connector (CN812)
7 two screws (K3 × 8)
8 two screws (BV3 × 8B)
10 back panel section
8 two screws (BV3 × 8B)
6 seven connectors (CN152, 153, 154, 155, 156, 157, 158)
6 two connectors (CN201, 205)
4 bottom plate
2 two foot assy's
2 two foot assy's
1 two screws (B4 × 16)
3 six screws (BV3 × 8B)
3 two screws (BV3 × 8B)
1 two screws (B4 × 16)

## MAIN BOARD


1 six connectors (CN101, 201, 202, 203, 204, 205)
6 ten screws (BV3 × 8B)
4 screw (BV3 × 8B)
5 lug
7 MAIN board
6 seven screws (BV3 × 8B)
2 two screws (BV3 × 8B)
3 bracket

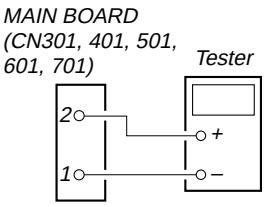
# SECTION 4
# ELECTRICAL ADJUSTMENTS

## DC BIAS CURRENT Adjustment (with no signal input)

After replacing the power transistors, DC BIAS CURRENT adjustments should be perfomed.

**Setting:**
SPEAKER IMPEDANCE switch (S801): 8 Ω MIN (NORMAL USE)

**Procedure:**

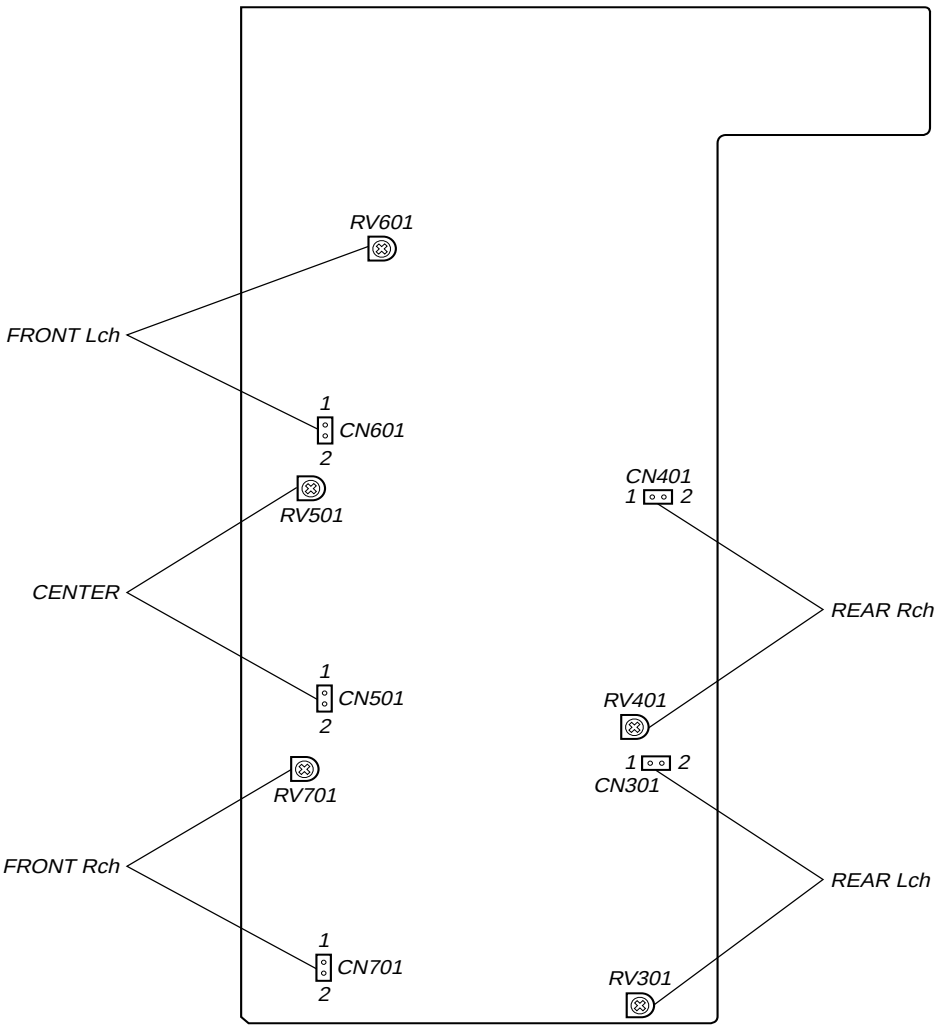



| | Connecting point | Adjustment part | Reading on the tester |
|---|---|---|---|
| FRONT Lch | CN601 | RV601 | 11 ±1 mA |
| FRONT Rch | CN701 | RV701 | 11 ±1 mA |
| CENTER | CN501 | RV501 | 11 ±1 mA |
| REAR Lch | CN301 | RV301 | 11 ±1 mA |
| REAR Rch | CN401 | RV401 | 11 ±1 mA |

**Note:** After adjustment, check five connecting points.

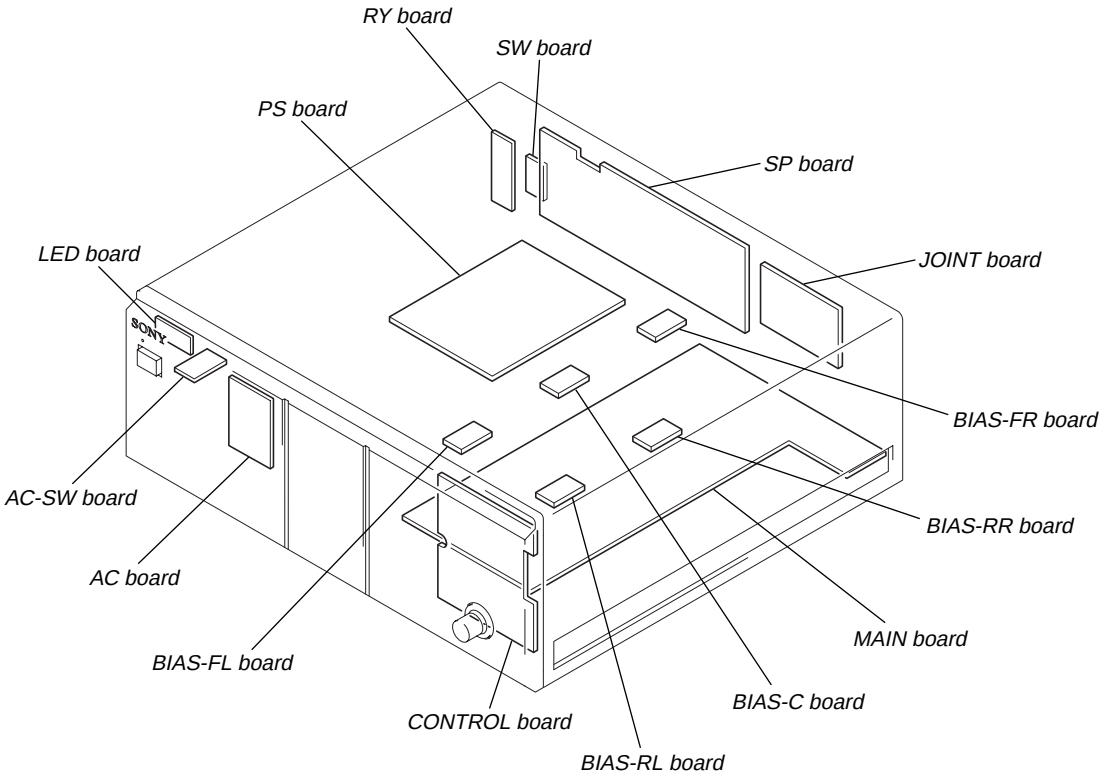
**Adjustment Location:**

**[MAIN Board]**
(Component Side)



# SECTION 5
# DIAGRAMS

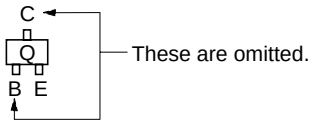
- **Circuit Boards Location**

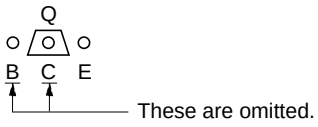


## 5-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

**Note on Printed Wiring Board:**

- ⊶—— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.
- Indication of transistor.




**Note on Schematic Diagram:**

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : fusible resistor.
- : panel designation.

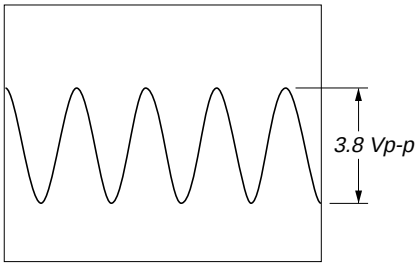
| **Note:** | **Note:** |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une piéce portant le numéro spécifié. |

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

- B+ : B+ Line.
- B– : B– Line.
- : adjustment for repair.
- Voltages and waveform are dc with respect to ground under no-signal conditions.
- Voltages and waveforms are taken with a VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : AUDIO
- Abbreviation
  CND : Canadian model.

• **Waveform**

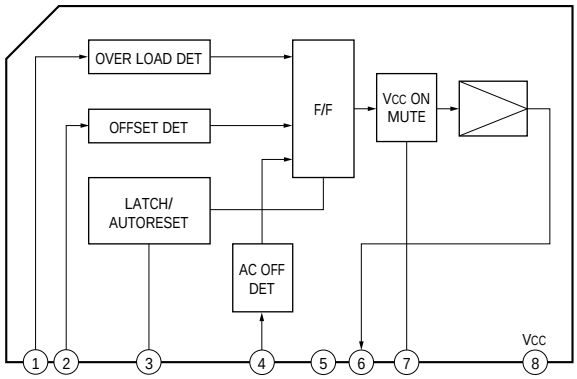
❶ IC901 ⑳ (X-OUT)




*8 MHz*

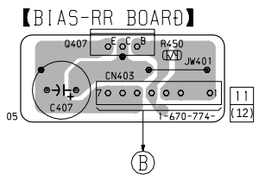
• **IC Block Diagram**
**– MAIN BOARD –**

**IC201 µPC1237HA**

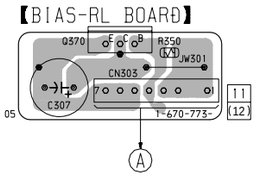


## 5-2. PRINTED WIRING BOARDS – MAIN Section – • See page 8 for Circuit Boards Location.

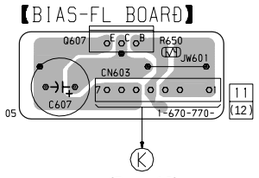
【BIAS-RR BOARD】




【BIAS-RL BOARD】

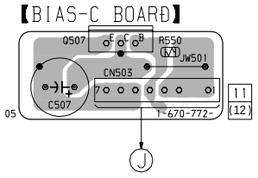



【BIAS-FL BOARD】



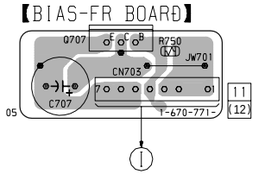

(Page 12)

【BIAS-C BOARD】




(Page 12)

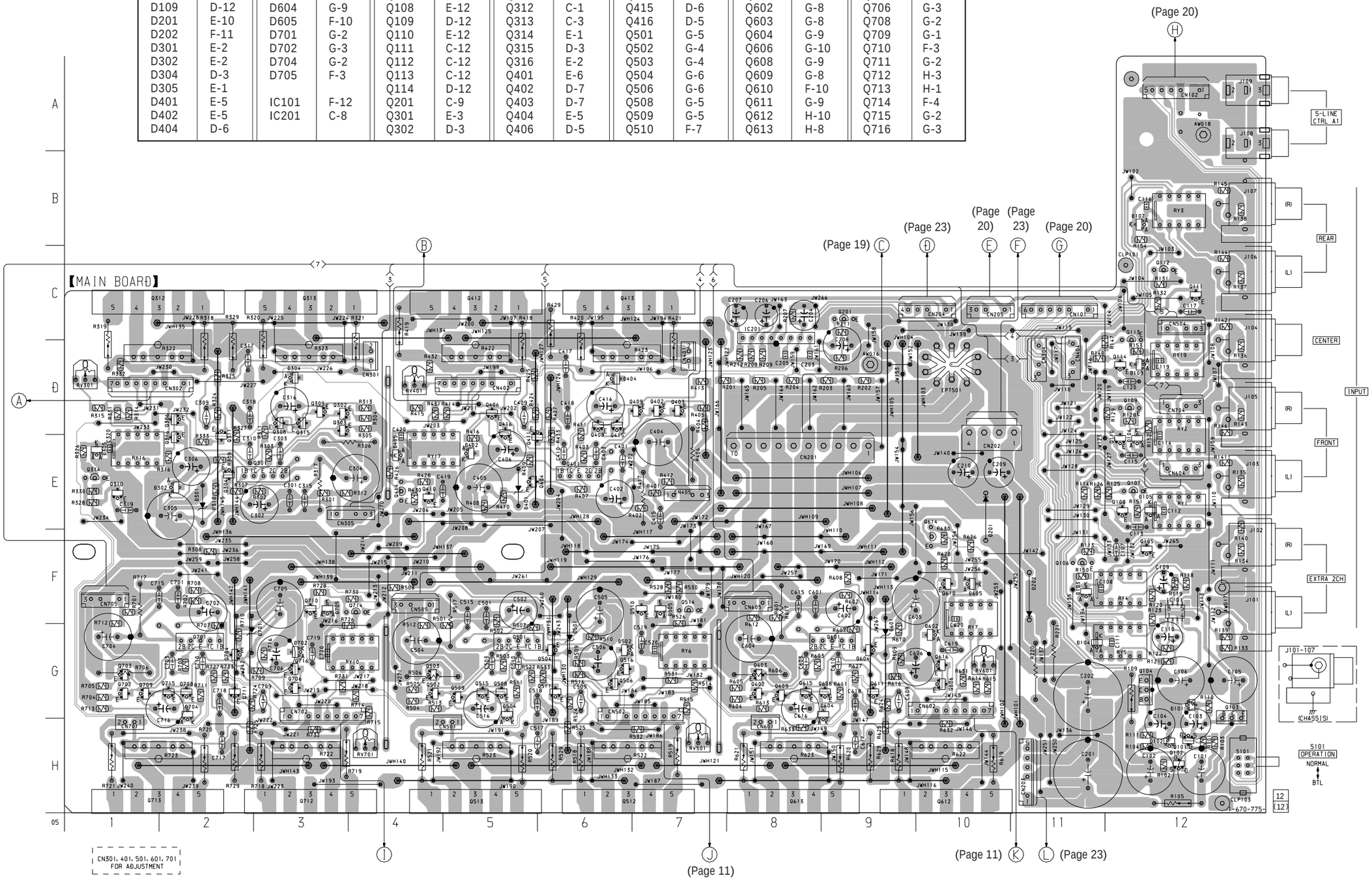
【BIAS-FR BOARD】



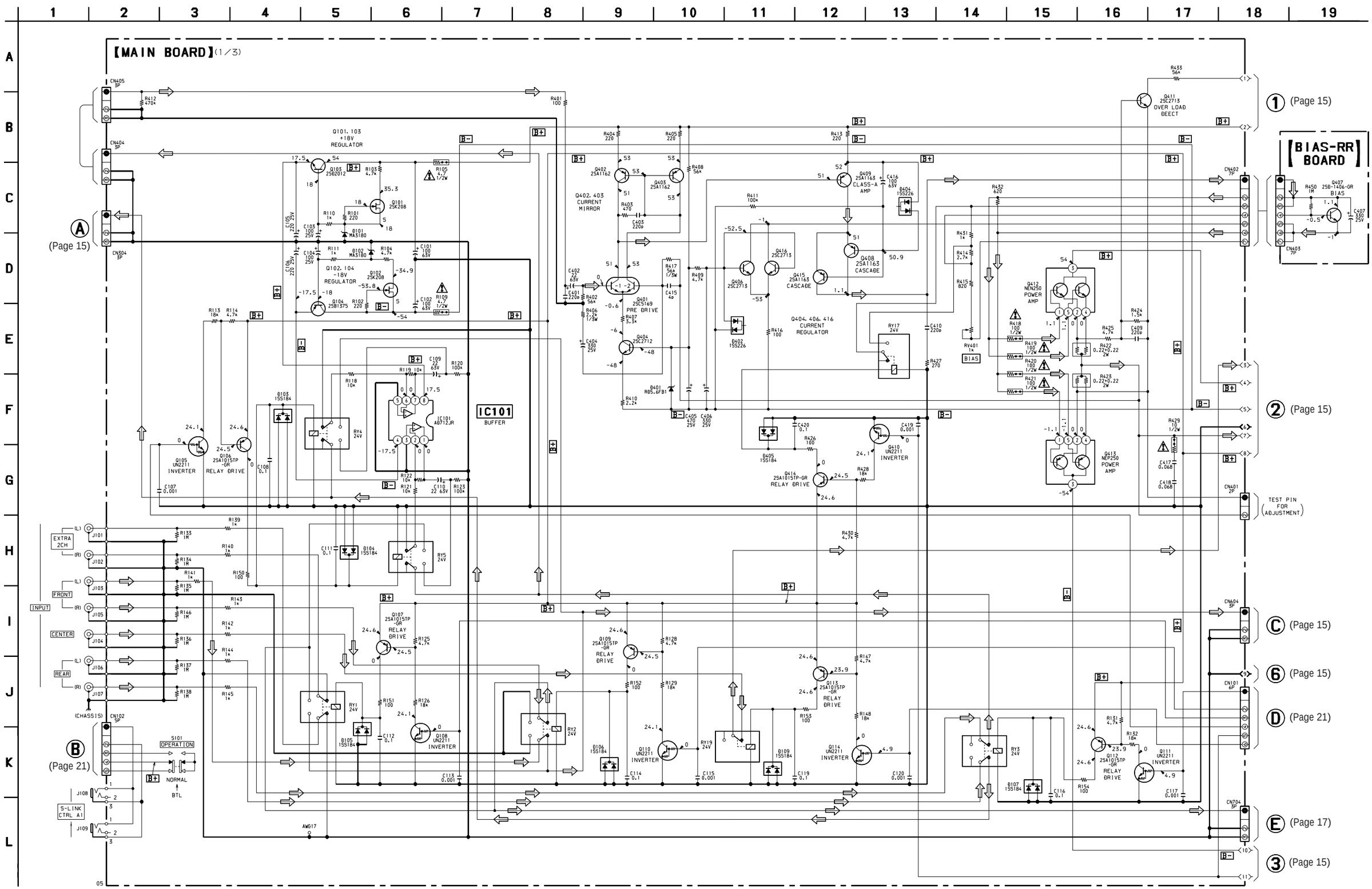

• **Semiconductor Location**

| Ref. No. | Location | Ref. No. | Location | Ref. No. | Location | Ref. No. | Location | Ref. No. | Location | Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D101 | G-12 | D405 | E-4 | Q101 | H-12 | Q303 | D-3 | Q408 | D-6 | Q511 | G-6 | Q614 | F-10 |
| D102 | H-12 | D501 | G-6 | Q102 | H-12 | Q304 | E-2 | Q409 | D-7 | Q512 | H-6 | Q615 | G-8 |
| D103 | F-11 | D502 | G-6 | Q103 | G-12 | Q306 | D-2 | Q410 | E-4 | Q513 | H-5 | Q616 | G-10 |
| D104 | G-11 | D504 | G-5 | Q104 | G-12 | Q308 | D-3 | Q411 | E-5 | Q514 | F-7 | Q701 | G-2 |
| D105 | E-12 | D505 | F-7 | Q105 | F-12 | Q309 | D-3 | Q412 | C-5 | Q515 | G-5 | Q702 | G-1 |
| D106 | E-12 | D601 | G-9 | Q106 | F-11 | Q310 | E-1 | Q413 | C-6 | Q516 | G-6 | Q703 | G-1 |
| D107 | B-12 | D602 | G-10 | Q107 | E-12 | Q311 | E-2 | Q414 | E-4 | Q601 | G-9 | Q704 | G-2 |
| D109 | D-12 | D604 | G-9 | Q108 | E-12 | Q312 | C-1 | Q415 | D-6 | Q602 | G-8 | Q706 | G-3 |
| D201 | E-10 | D605 | F-10 | Q109 | D-12 | Q313 | C-3 | Q416 | D-5 | Q603 | G-8 | Q708 | G-2 |
| D202 | F-11 | D701 | G-2 | Q110 | E-12 | Q314 | E-1 | Q501 | G-5 | Q604 | G-9 | Q709 | G-1 |
| D301 | E-2 | D702 | G-3 | Q111 | C-12 | Q315 | D-3 | Q502 | G-4 | Q606 | G-10 | Q710 | F-3 |
| D302 | E-2 | D704 | G-2 | Q112 | C-12 | Q316 | E-2 | Q503 | G-4 | Q608 | G-9 | Q711 | G-2 |
| D304 | D-3 | D705 | F-3 | Q113 | C-12 | Q401 | E-6 | Q504 | G-6 | Q609 | G-8 | Q712 | H-3 |
| D305 | E-1 | | | Q114 | D-12 | Q402 | D-7 | Q506 | G-6 | Q610 | F-10 | Q713 | H-1 |
| D401 | E-5 | IC101 | F-12 | Q201 | C-9 | Q403 | D-7 | Q508 | G-5 | Q611 | G-9 | Q714 | F-4 |
| D402 | E-5 | IC201 | C-8 | Q301 | E-3 | Q404 | E-5 | Q509 | G-5 | Q612 | H-10 | Q715 | G-2 |
| D404 | D-6 | | | Q302 | D-3 | Q406 | D-5 | Q510 | F-7 | Q613 | H-8 | Q716 | G-3 |

【MAIN BOARD】

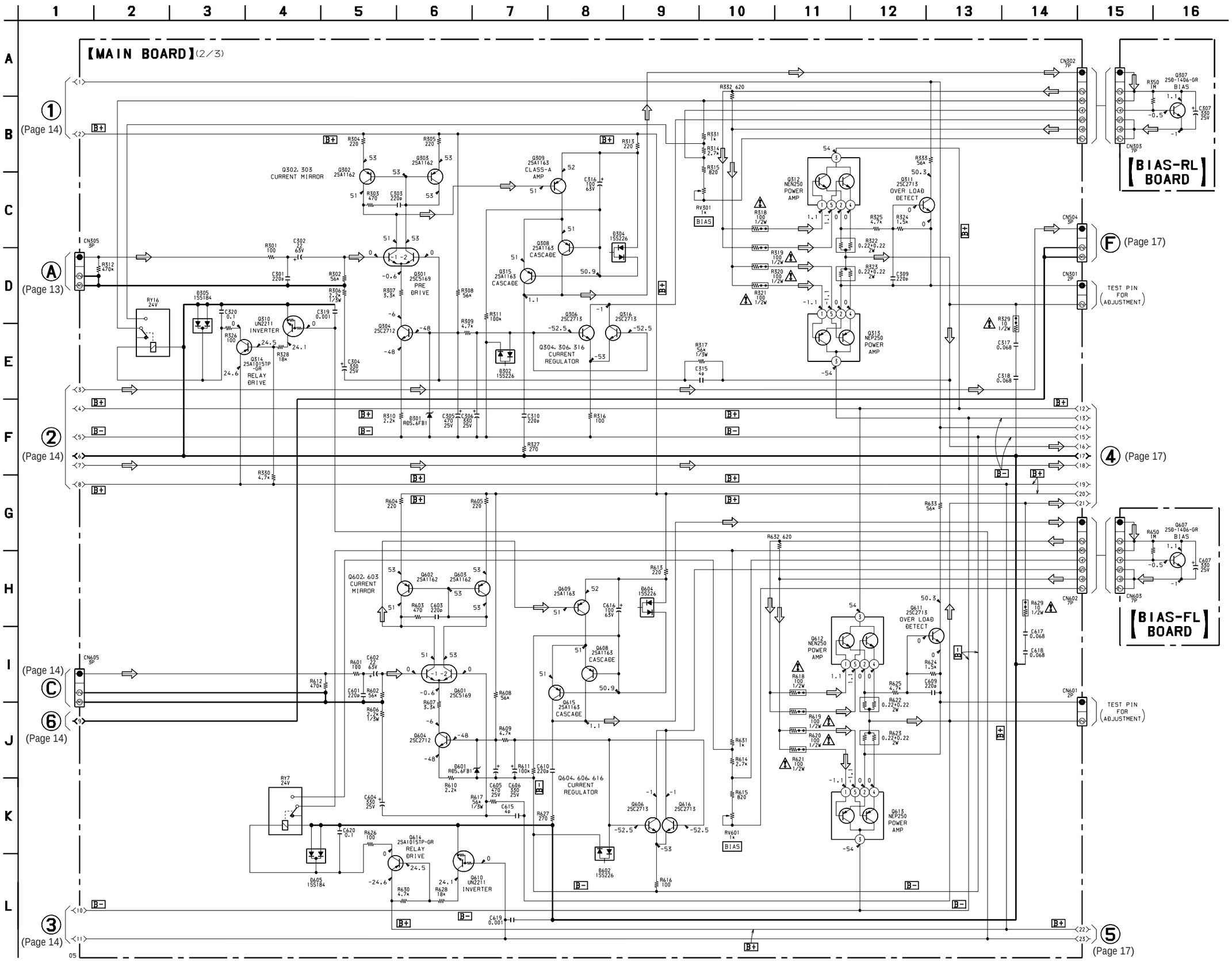


## 5-3. SCHEMATIC DIAGRAM – MAIN Section (1/3) –




| | | |
|---|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié. | 以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。 |

## 5-4. SCHEMATIC DIAGRAM – MAIN Section (2/3) –

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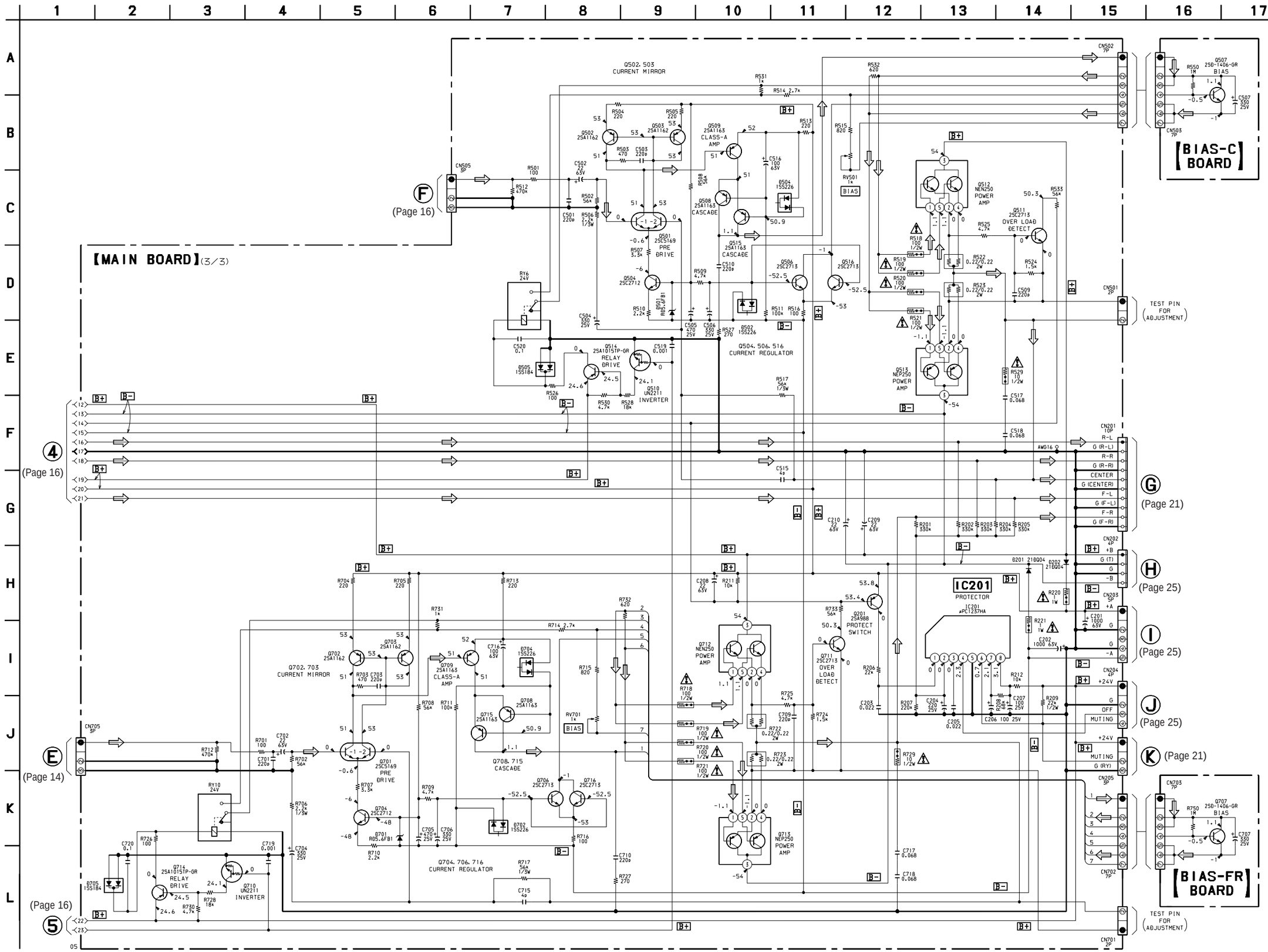
## 5-5. SCHEMATIC DIAGRAM – MAIN Section (3/3) – • See page 10 for IC Block Diagram.

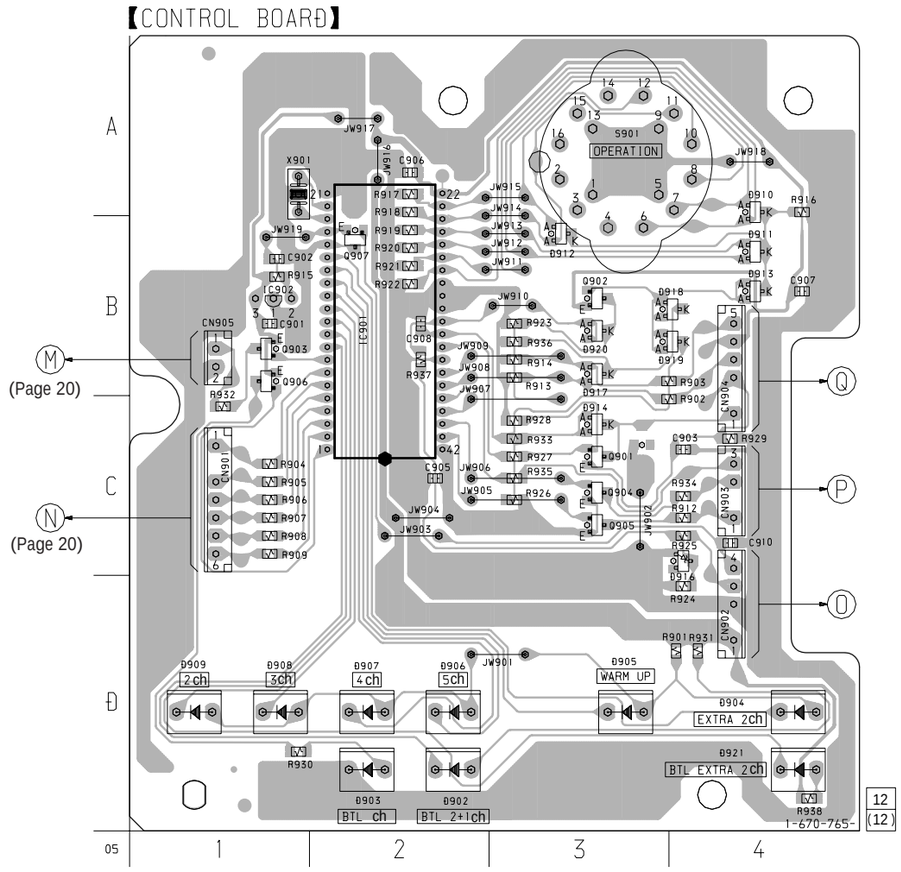


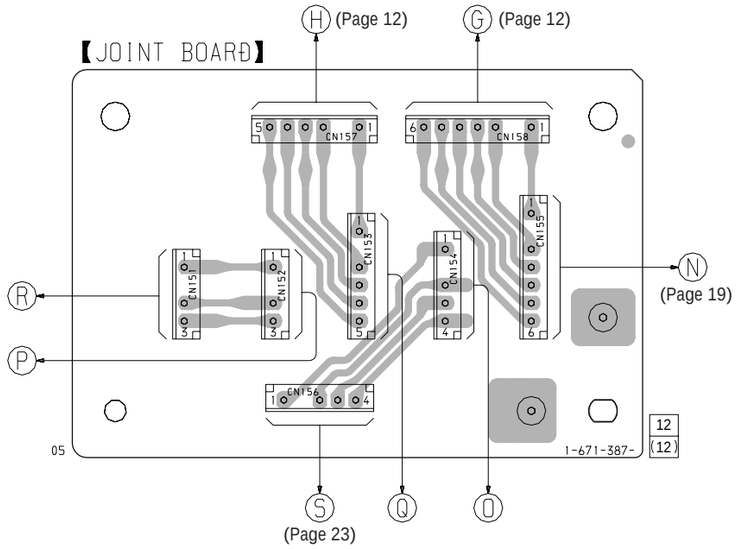

| | | |
|---|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié. | 以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。 |

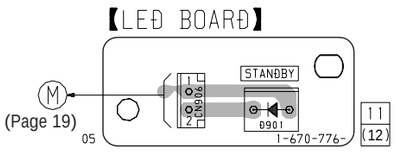
## 5-6. PRINTED WIRING BOARDS – CONTROL Section – • See page 8 for Circuit Boards Location.

• **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D902 | D-2 |
| D903 | D-2 |
| D904 | D-4 |
| D905 | D-3 |
| D906 | D-2 |
| D907 | D-2 |
| D908 | D-1 |
| D909 | D-1 |
| D910 | A-4 |
| D911 | B-4 |
| D912 | B-3 |
| D913 | B-4 |
| D914 | C-3 |
| D916 | C-4 |
| D917 | B-3 |
| D918 | B-4 |
| D919 | B-4 |
| D920 | B-3 |
| D921 | D-4 |
| IC901 | B-2 |
| IC902 | B-1 |
| Q901 | C-3 |
| Q902 | B-3 |
| Q903 | B-1 |
| Q904 | C-3 |
| Q905 | C-3 |
| Q906 | B-1 |
| Q907 | B-2 |

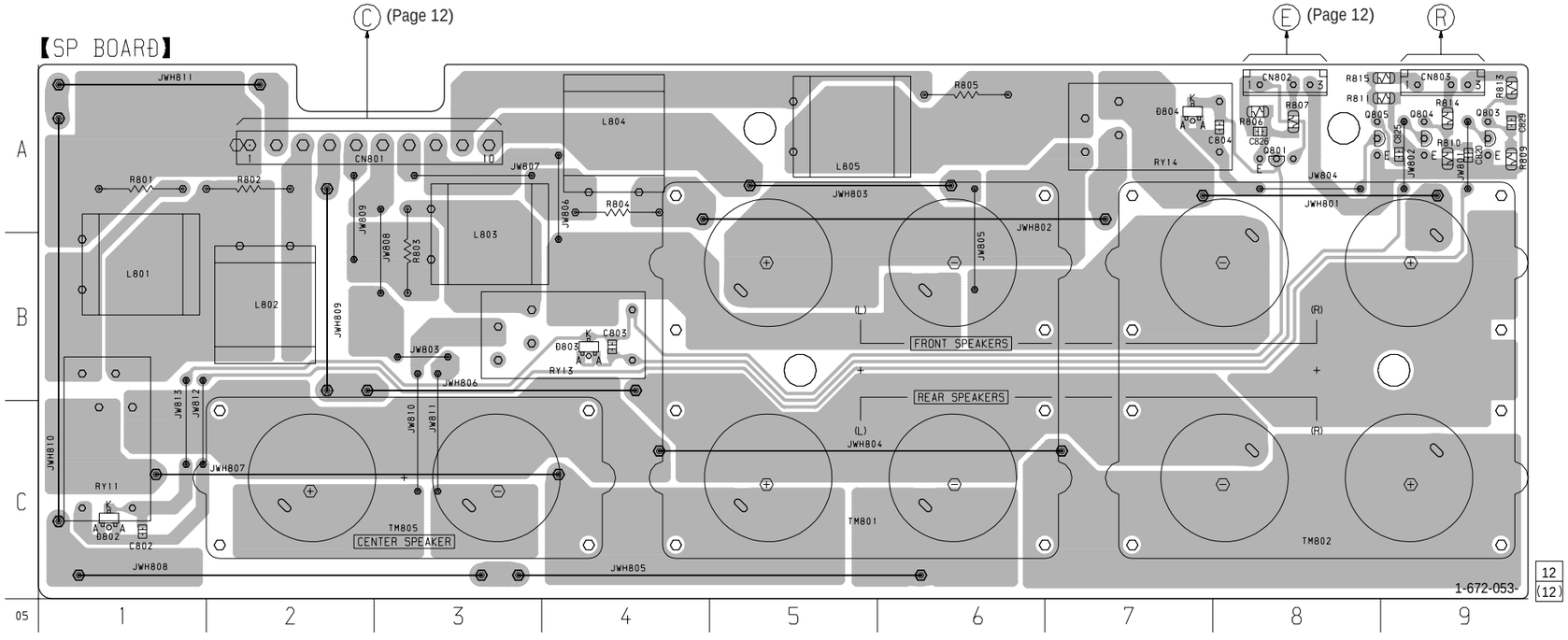


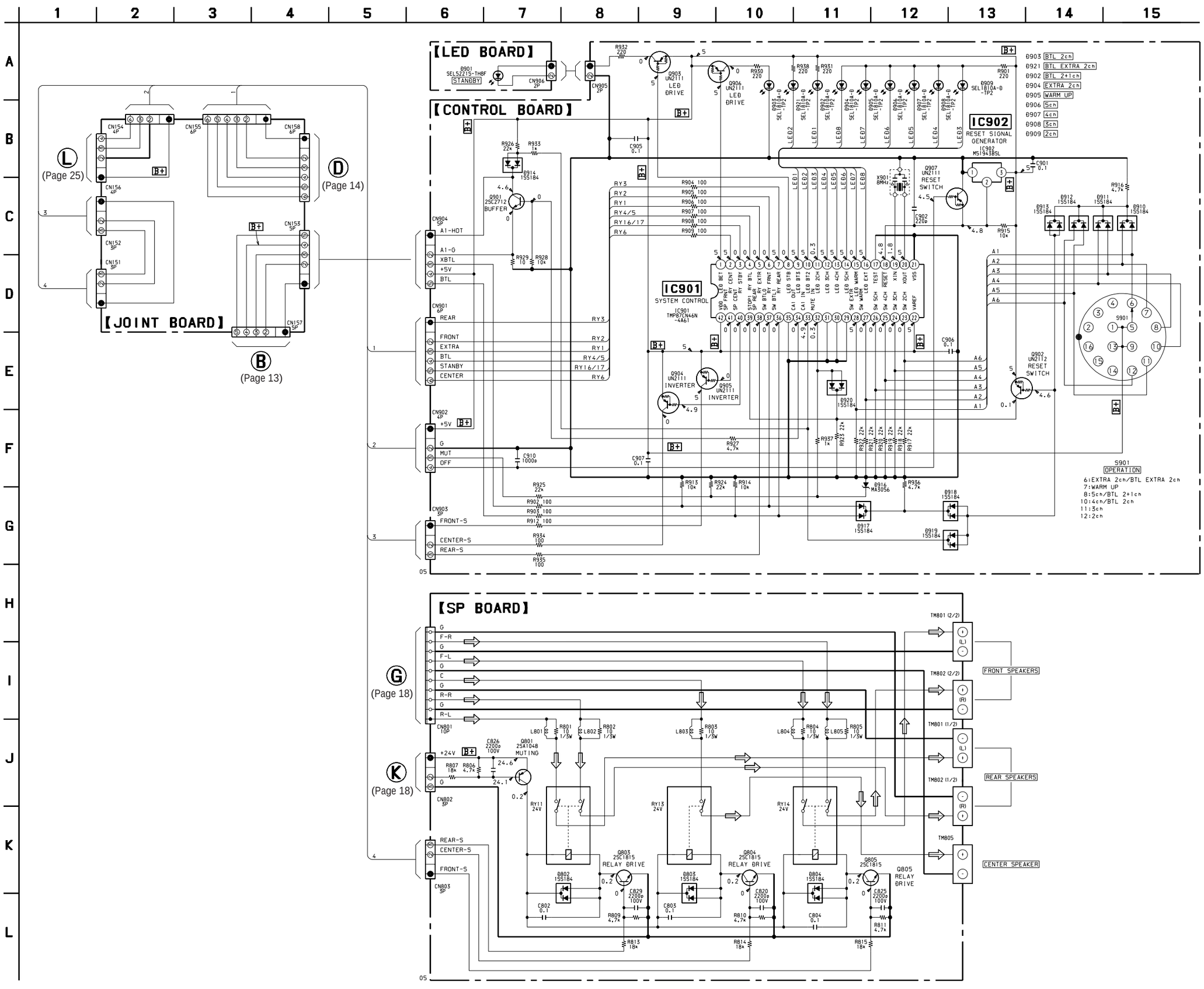




• **Semiconductor Location**

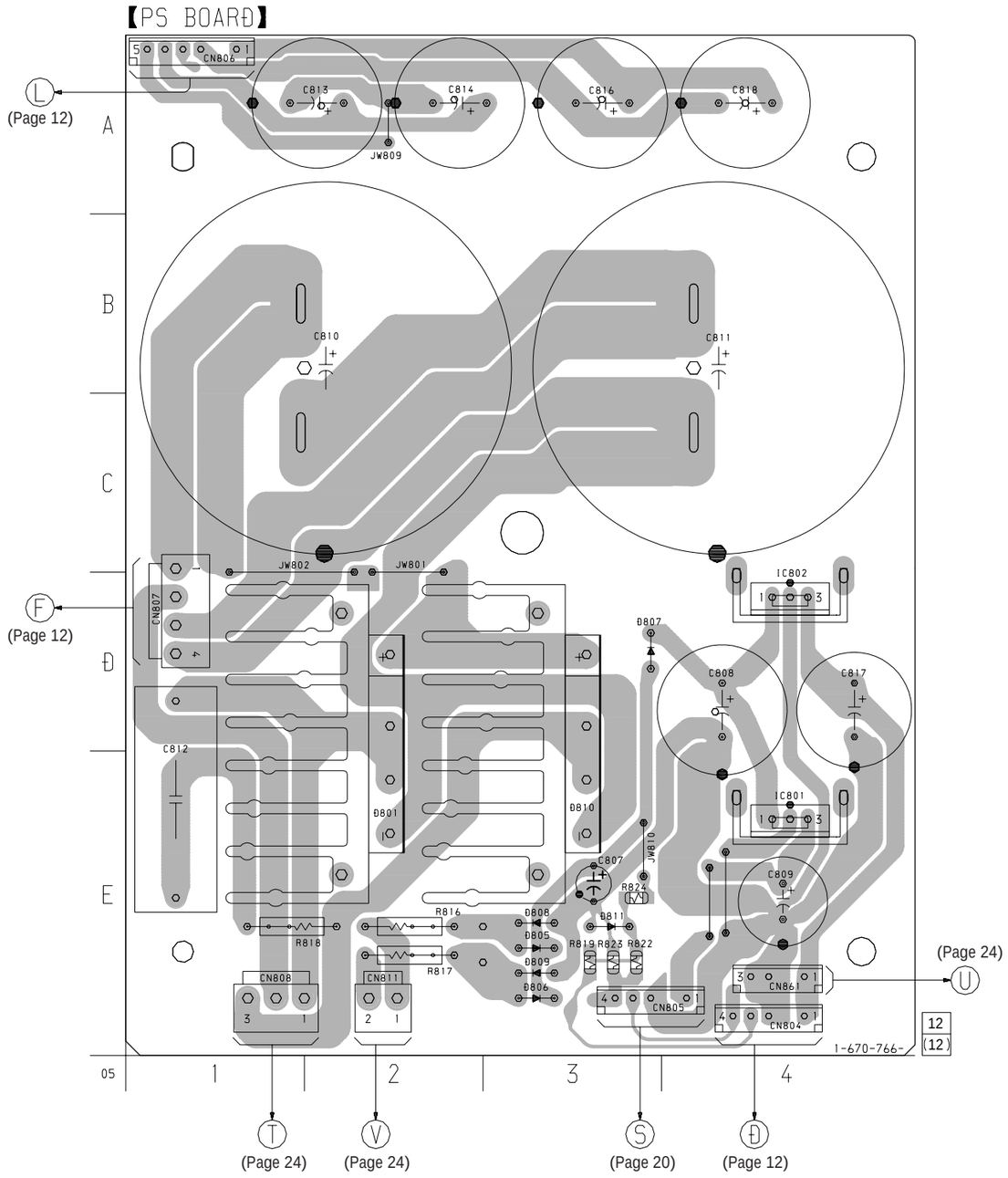
| Ref. No. | Location |
|---|---|
| D802 | C-1 |
| D803 | B-4 |
| D804 | A-7 |
| Q801 | A-8 |
| Q803 | A-9 |
| Q804 | A-9 |
| Q805 | A-8 |

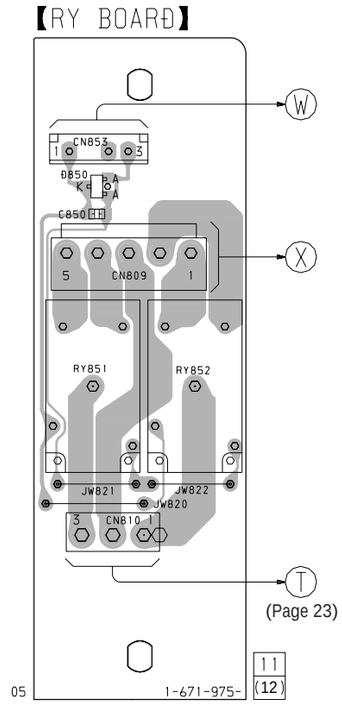


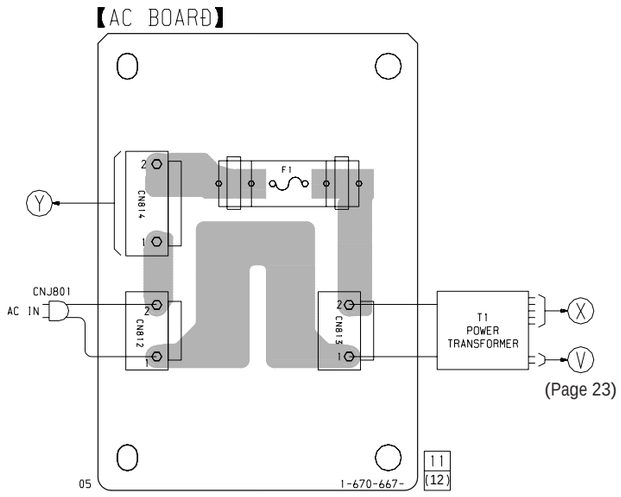
## 5-7. SCHEMATIC DIAGRAM – CONTROL Section – • See page 10 for Waveform.

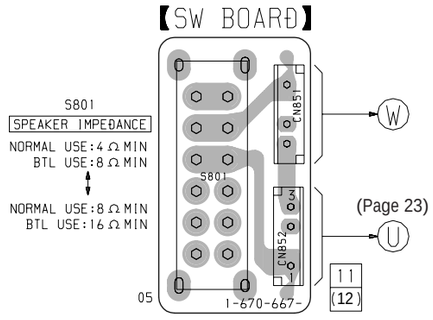


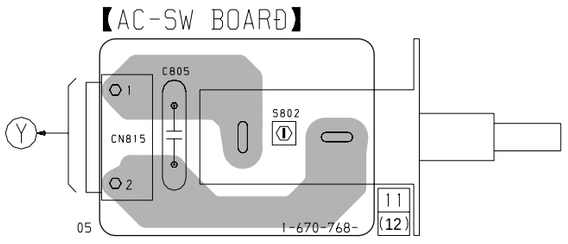
## 5-8. PRINTED WIRING BOARDS – POWER Section – • See page 8 for Circuit Boards Location.



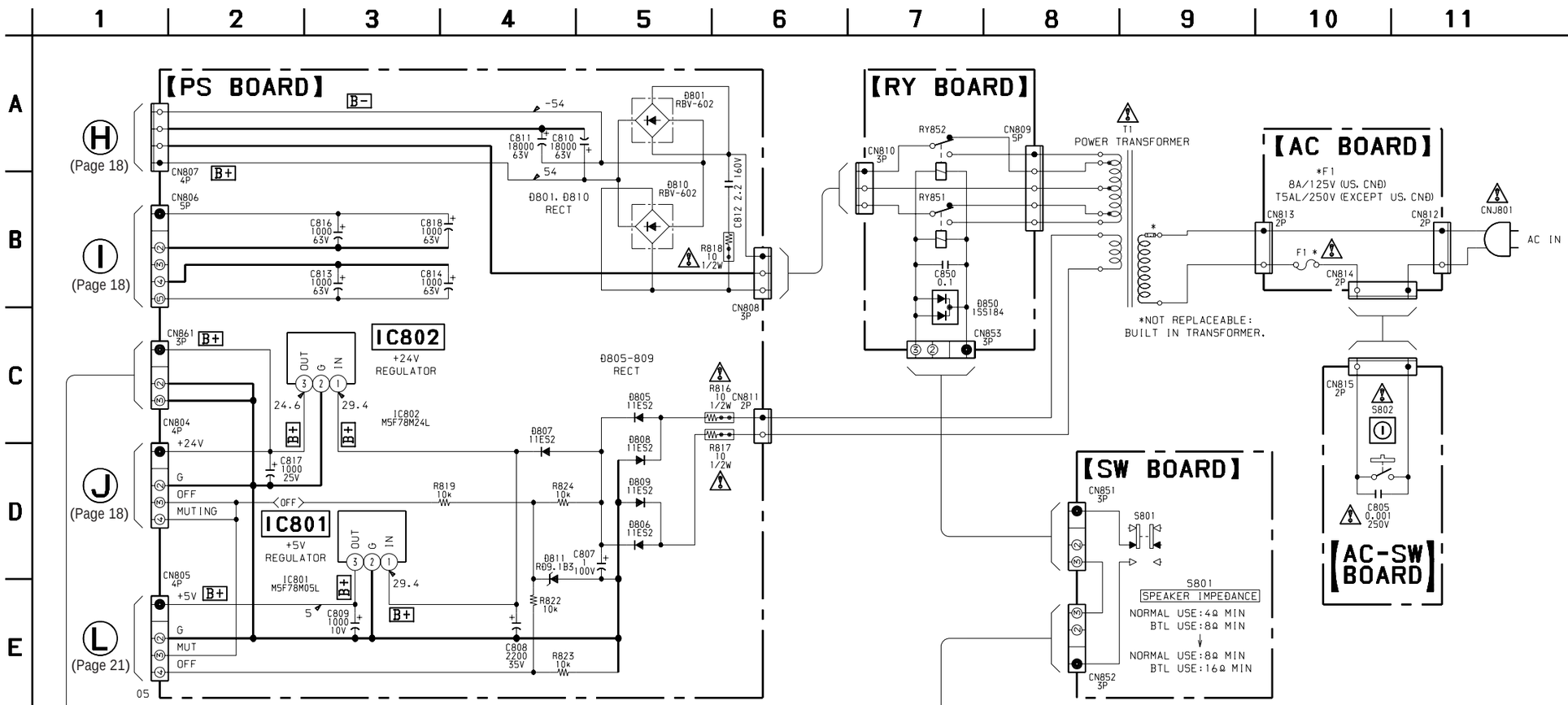




- **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D801 | E-2 |
| D805 | E-3 |
| D806 | E-3 |
| D807 | D-3 |
| D808 | E-3 |
| D809 | E-3 |
| D810 | E-3 |
| D811 | E-3 |
| | |
| IC801 | E-4 |
| IC802 | D-4 |

## 5-9. SCHEMATIC DIAGRAM – POWER Section –




| | | |
|---|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié. | 以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。 |

## 5-10. IC PIN FUNCTION DESCRIPTION

**• CONTROL BOARD IC901 TMP87CN46N-4A61 (SYSTEM CONTROLLER)**

| Pin No. | Pin Name | I/O | Function |
|---|---|---|---|
| 1 | LED BET | O | LED drive signal output of the BTL 2ch LED (D903) "L": LED on |
| 2 | RY CENT | O | Relay drive signal output of the CENTER line input "L": CENTER on |
| 3 | RY STBY | O | Relay drive signal output of the standby on/off "H": standby mode |
| 4 | RY BTL | O | Relay drive signal output of the BTL control "L": BTL on |
| 5 | RY EXTR | O | Relay drive signal output of the EXTRA 2CH line input "L": EXTRA 2CH on |
| 6 | RY FRNT | O | Relay drive signal output of the FRONT line input "L": FRONT on |
| 7 | RY REAR | O | Relay drive signal output of the REAR line input "L": REAR on |
| 8 | LED STB | O | LED drive signal output of the STANDBY LED (D901) "L": LED on |
| 9 | LED BT3 | O | LED drive signal output of the BTL 2+1ch LED (D902) "L": LED on |
| 10 | LED BT2 | O | LED drive signal output of the BTL EXTRA 2ch LED (D921) "L": LED on |
| 11 | LED 2CH | O | LED drive signal output of the 2ch LED (D909) "L": LED on |
| 12 | LED 3CH | O | LED drive signal output of the 3ch LED (D908) "L": LED on |
| 13 | LED 4CH | O | LED drive signal output of the 4ch LED (D907) "L": LED on |
| 14 | LED 5CH | O | LED drive signal output of the 5ch LED (D906) "L": LED on |
| 15 | LED WARM | O | LED drive signal output of the WARM UP LED (D905) "L": LED on |
| 16 | LED EXT | O | LED drive signal output of the EXTRA 2ch LED (D904) "L": LED on |
| 17 | TEST | I | Test input terminal (fixed at "L") |
| 18 | $\overline{\text{RESET}}$ | I | System reset signal input from the reset signal generator (IC902) "L": reset<br>For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H" |
| 19 | XIN | I | Main system clock input terminal (8 MHz) |
| 20 | XOUT | O | Main system clock output terminal (8 MHz) |
| 21 | VSS | — | Ground terminal |
| 22 | VAREF | I | Reference voltage (+5V) input terminal |
| 23 | SW 2CH | I | OPERATION switch (S901) input terminal "H": 2ch |
| 24 | SW 3CH | I | OPERATION switch (S901) input terminal "H": 3ch |
| 25 | SW 4CH | I | OPERATION switch (S901) input terminal "H": 4ch/BTL 2ch |
| 26 | SW 5CH | I | OPERATION switch (S901) input terminal "H": 5ch/BTL 2+1ch |
| 27 | SW WARM | I | OPERATION switch (S901) input terminal "H": WARM UP |
| 28 | SW EXTR | I | OPERATION switch (S901) input terminal "H": EXTRA 2ch/BTL EXTRA 2ch |
| 29 to 31 | — | I | Not used (fixed at "L") |
| 32 | MUTE IN | I | Muting on/off control signal input from the μPC1237HA (IC201) |
| 33 | CA1 IN | I | Sircs remote control signal input for the S-link control A1 |
| 34 | CA1 OUT | O | Sircs remote control signal output for the S-link control A1 |
| 35 | — | I | Not used (fixed at "L") |
| 36 | SW BTL1 | I | OPERATION switch (S101) input terminal "L": BTL, "H": NORMAL |
| 37 | SW BTL0 | I | OPERATION switch (S101) input terminal "L": NORMAL, "H": BTL |
| 38 | SP REAR | O | Rear speaker on/off relay drive signal output terminal (for protect) "L": relay on |
| 39 | STOP IN | I | Trigger input terminal |
| 40 | SP CENT | O | Center speaker on/off relay drive signal output terminal (for protect) "L": relay on |
| 41 | SP FRNT | O | Front speaker on/off relay drive signal output terminal (for protect) "L": relay on |
| 42 | VDD | — | Power supply terminal (+5V) |

# SECTION 6
# EXPLODED VIEWS

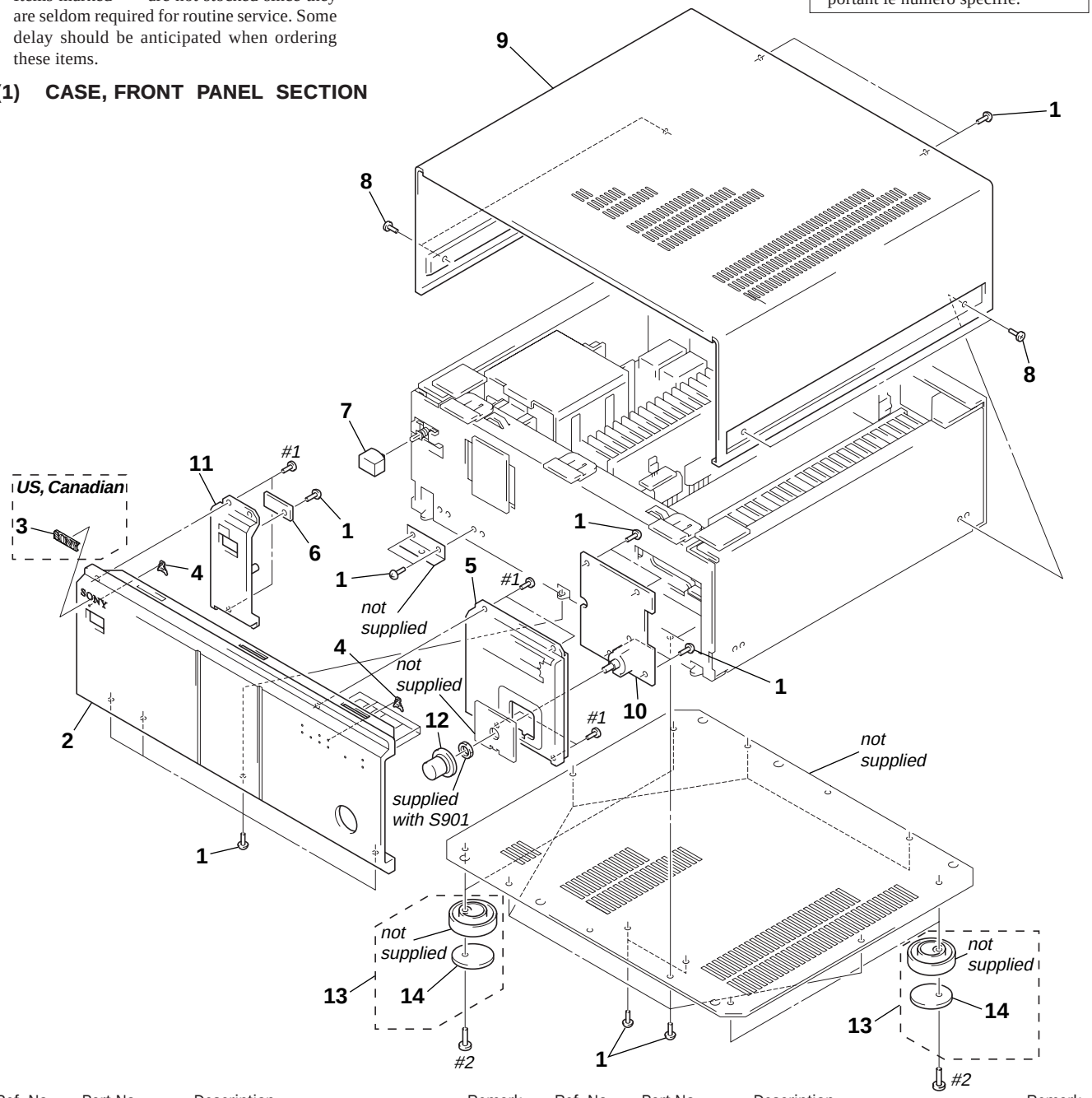
以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

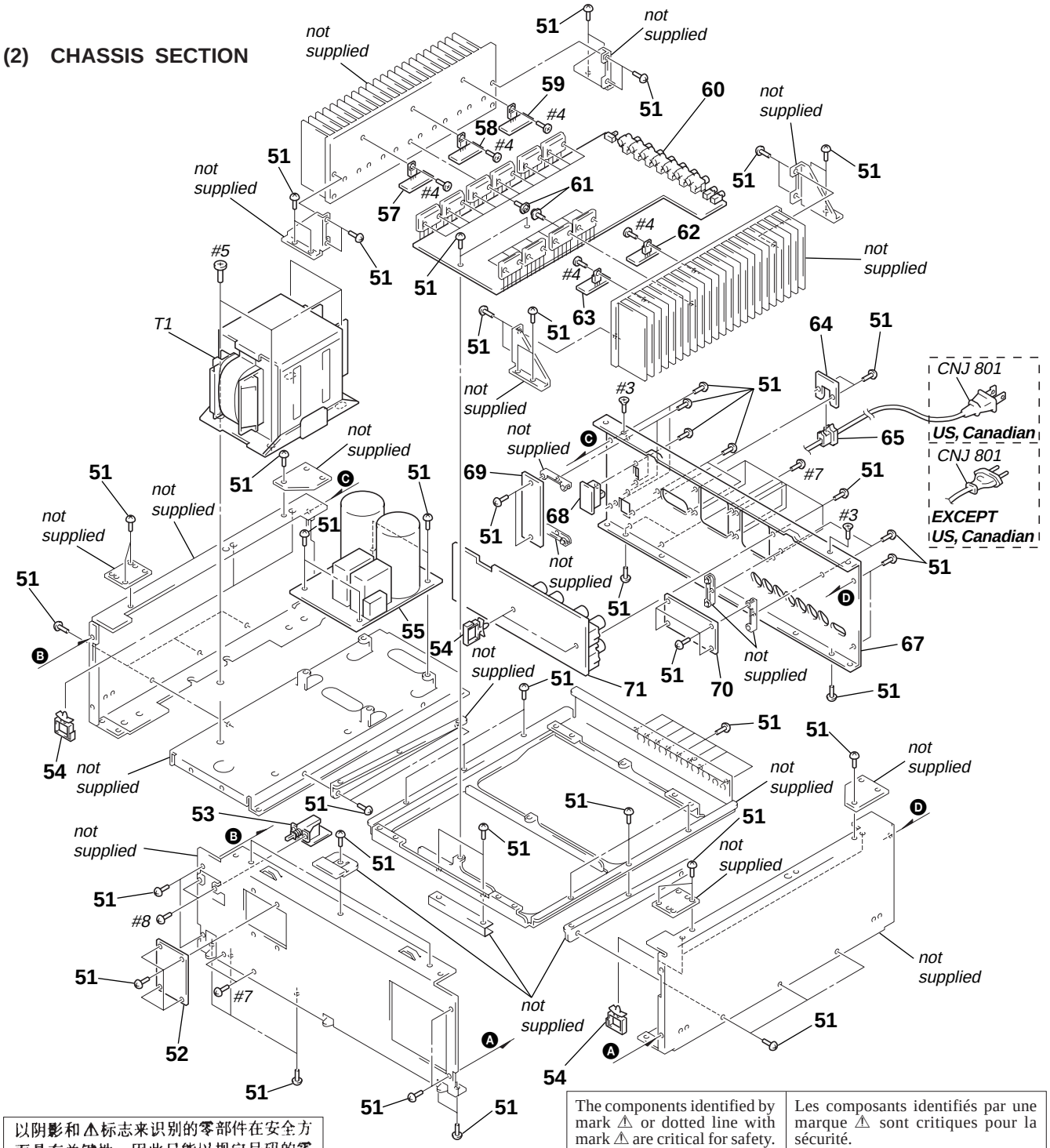
Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

## (1) CASE, FRONT PANEL SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | 4-974-510-01 | SCREW (+BV 3X8 B) | |
| 2 | 4-211-108-01 | PANEL, FRONT (GOLD) (EXCEPT US, Canadian) | |
| 2 | 4-211-108-11 | PANEL, FRONT (BLACK) | |
| 2 | 4-211-108-21 | PANEL, FRONT (GOLD) (US, Canadian) | |
| 3 | 4-942-568-41 | EMBLEM (NO.5), SONY (FOR BLACK) | |
| 4 | 4-211-094-31 | INDICATOR (6) | |
| 5 | 4-211-102-01 | PLATE (B), ORNAMENTAL (GOLD) | |
| 5 | 4-211-102-11 | PLATE (B), ORNAMENTAL (BLACK) | |
| * 6 | 1-670-776-11 | LED BOARD | |
| 7 | X-4950-227-1 | BUTTON ASSY, POWER (⏻) (GOLD) | |
| 7 | X-4950-228-1 | BUTTON ASSY, POWER (⏻) (BLACK) | |
| 8 | 4-976-827-01 | SCREW, FLAT HEAD (BLACK) | |
| 8 | 4-976-827-11 | SCREW, FLAT HEAD (SILVER) | |
| * 9 | 4-211-110-01 | CASE (GOLD) | |
| * 9 | 4-211-110-11 | CASE (BLACK) | |
| * 10 | A-4414-841-A | CONTROL BOARD, COMPLETE | |
| 11 | 4-211-109-01 | PLATE (A), ORNAMENTAL (GOLD) | |
| 11 | 4-211-109-11 | PLATE (A), ORNAMENTAL (BLACK) | |
| 12 | 4-211-104-01 | KNOB (DIA. 29) (GOLD) | |
| 12 | 4-211-104-11 | KNOB (DIA. 29) (BLACK) | |
| 13 | X-4950-540-1 | FOOT ASSY | |
| 14 | 4-972-889-01 | CUSHION | |

## (2) CHASSIS SECTION




以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |
|---|---|

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 51 | 4-974-510-01 | SCREW (+BV 3X8 B) | |
| * 52 | 1-670-767-11 | AC BOARD | |
| * 53 | 1-670-768-11 | AC-SW BOARD | |
| 54 | 4-999-505-11 | SADDLE, WIRE | |
| * 55 | A-4414-845-A | PS BOARD, COMPLETE (US, Canadian) | |
| * 55 | A-4414-847-A | PS BOARD, COMPLETE (EXCEPT US, Canadian) | |
| * 57 | 1-670-770-11 | BIAS-FL BOARD | |
| * 58 | 1-670-770-11 | BIAS-C BOARD | |
| * 59 | 1-670-770-11 | BIAS-FR BOARD | |
| * 60 | A-4414-844-A | MAIN BOARD, COMPLETE (US, Canadian) | |
| * 60 | A-4414-846-A | MAIN BOARD, COMPLETE (EXCEPT US, Canadian) | |
| 61 | X-4943-354-1 | SCREW (+B) ASSY, BARREL WASHER | |
| * 62 | 1-670-770-11 | BIAS-RR BOARD | |
| * 63 | 1-670-770-11 | BIAS-RL BOARD | |
| * 64 | 4-923-873-01 | BRACKET, CORD STOPPER | |
| 65 | 2-352-626-01 | BUSHING, CORD | |
| * 67 | 4-211-114-11 | PANEL, BACK (US, Canadian) | |
| * 67 | 4-211-114-21 | PANEL, BACK (EXCEPT US, Canadian) | |
| * 68 | 1-670-769-11 | SW BOARD | |
| * 69 | 1-671-975-11 | RY BOARD | |
| * 70 | 1-671-387-11 | JOINT BOARD | |
| * 71 | A-4414-832-A | SP BOARD, COMPLETE | |
| ⚠CNJ801 | 1-559-479-11 | CORD, POWER (US, Canadian) | |
| ⚠CNJ801 | 1-575-953-11 | CORD, POWER (EXCEPT US, Canadian) | |
| ⚠T1 | 1-431-981-11 | TRANSFORMER, POWER (US, Canadian) | |
| ⚠T1 | 1-431-983-11 | TRANSFORMER, POWER (EXCEPT US, Canadian) | |

**AC** **AC-SW** **BIAS-C** **BIAS-FL**
**BIAS-FR** **BIAS-RL**

# SECTION 7
# ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  CND : Canadian
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| * | 1-670-767-11 | AC BOARD | | | | |
| | | ********** | | | | |
| | 1-533-293-11 | FUSE HOLDER | | | | |
| | | < CONNECTOR > | | | | |
| CN812 | 1-564-321-00 | PIN, CONNECTOR 2P | | | | |
| * CN813 | 1-564-321-21 | PIN, CONNECTOR 2P | | | | |
| * CN814 | 1-565-792-11 | PIN, CONNECTOR 2P | | | | |
| | | < FUSE > | | | | |
| ⚠F1 | 1-532-505-31 | FUSE (T5AL/250V) (EXCEPT US, CND) | | | | |
| ⚠F1 | 1-533-311-11 | FUSE, GLASS CYLINDRICAL (DIA. 5) (8A/125V) (US, CND) | | | | |
| ********** | | | | | | |
| * | 1-670-768-11 | AC-SW BOARD | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| ⚠C805 | 1-113-915-11 | CERAMIC | 0.001uF | 20% | 250V | |
| | | < CONNECTOR > | | | | |
| * CN815 | 1-565-792-11 | PIN, CONNECTOR 2P | | | | |
| | | < SWITCH > | | | | |
| ⚠S802 | 1-554-538-00 | SWITCH, PUSH (AC POWER) (1 KEY) (⏻) | | | | |
| ********** | | | | | | |
| * | 1-670-770-11 | BIAS-C BOARD | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| C507 | 1-119-830-11 | ELECT | 330uF | 20% | 25V | |
| | | < TRANSISTOR > | | | | |
| Q507 | 8-729-231-60 | TRANSISTOR 2SD1406-YGR | | | | |
| | | < RESISTOR > | | | | |
| R550 | 1-260-032-11 | CARBON MELF | 1M | 2% | 1/8W | |
| ********** | | | | | | |
| * | 1-670-770-11 | BIAS-FL BOARD | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| C607 | 1-119-830-11 | ELECT | 330uF | 20% | 25V | |
| | | < TRANSISTOR > | | | | |
| Q607 | 8-729-231-60 | TRANSISTOR 2SD1406-YGR | | | | |
| | | < RESISTOR > | | | | |
| R650 | 1-260-032-11 | CARBON MELF | 1M | 2% | 1/8W | |
| ********** | | | | | | |
| * | 1-670-770-11 | BIAS-FR BOARD | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| C707 | 1-119-830-11 | ELECT | 330uF | 20% | 25V | |
| | | < TRANSISTOR > | | | | |
| Q707 | 8-729-231-60 | TRANSISTOR 2SD1406-YGR | | | | |
| | | < RESISTOR > | | | | |
| R750 | 1-260-032-11 | CARBON MELF | 1M | 2% | 1/8W | |
| ********** | | | | | | |
| * | 1-670-770-11 | BIAS-RL BOARD | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| C307 | 1-119-830-11 | ELECT | 330uF | 20% | 25V | |
| | | < TRANSISTOR > | | | | |
| Q307 | 8-729-231-60 | TRANSISTOR 2SD1406-YGR | | | | |
| | | < RESISTOR > | | | | |
| R350 | 1-260-032-11 | CARBON MELF | 1M | 2% | 1/8W | |
| ********** | | | | | | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| * | 1-670-770-11 | BIAS-RR BOARD | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C407 | 1-119-830-11 | ELECT | 330uF | 20% | 25V |
| | | < TRANSISTOR > | | | |
| Q407 | 8-729-231-60 | TRANSISTOR 2SD1406-YGR | | | |
| | | < RESISTOR > | | | |
| R450 | 1-260-032-11 | CARBON MELF | 1M | 2% | 1/8W |
| ********** | | | | | |
| * | A-4414-841-A | CONTROL BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C901 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V |
| C902 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C905 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V |
| C906 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V |
| C907 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V |
| C910 | 1-163-009-11 | CERAMIC CHIP | 1000PF | 10% | 50V |
| | | < CONNECTOR > | | | |
| CN901 | 1-564-510-11 | PLUG (MICRO CONNECTOR) 6P | | | |
| CN902 | 1-691-766-21 | PLUG (MICRO CONNECTOR) 4P | | | |
| CN903 | 1-691-765-21 | PLUG (MICRO CONNECTOR) 3P | | | |
| CN904 | 1-564-506-11 | PLUG (MICRO CONNECTOR) 5P | | | |
| CN905 | 1-564-505-11 | PLUG, CONNECTOR 2P | | | |
| | | < DIODE > | | | |
| D902 | 8-719-303-31 | LED SEL1810A-D-TP2 (BTL 2+1ch) | | | |
| D903 | 8-719-303-31 | LED SEL1810A-D-TP2 (BTL 2ch) | | | |
| D904 | 8-719-303-31 | LED SEL1810A-D-TP2 (EXTRA 2ch) | | | |
| D905 | 8-719-303-31 | LED SEL1810A-D-TP2 (WARM UP) | | | |
| D906 | 8-719-303-31 | LED SEL1810A-D-TP2 (5ch) | | | |
| D907 | 8-719-303-31 | LED SEL1810A-D-TP2 (4ch) | | | |
| D908 | 8-719-303-31 | LED SEL1810A-D-TP2 (3ch) | | | |
| D909 | 8-719-303-31 | LED SEL1810A-D-TP2 (2ch) | | | |
| D910 | 8-719-801-78 | DIODE 1SS184 | | | |
| D911 | 8-719-801-78 | DIODE 1SS184 | | | |
| D912 | 8-719-801-78 | DIODE 1SS184 | | | |
| D913 | 8-719-801-78 | DIODE 1SS184 | | | |
| D914 | 8-719-801-78 | DIODE 1SS184 | | | |
| D916 | 8-719-400-46 | DIODE MA3056-L | | | |
| D917 | 8-719-801-78 | DIODE 1SS184 | | | |
| D918 | 8-719-801-78 | DIODE 1SS184 | | | |
| D919 | 8-719-801-78 | DIODE 1SS184 | | | |
| D920 | 8-719-801-78 | DIODE 1SS184 | | | |
| D921 | 8-719-303-31 | LED SEL1810A-D-TP2 (BTL EXTRA 2ch) | | | |
| | | < IC > | | | |
| IC901 | 8-759-563-03 | IC TMP87CN46N-4A61 | | | |
| IC902 | 8-759-635-63 | IC M51943BSL | | | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | < TRANSISTOR > | | | |
| Q901 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | | | |
| Q902 | 8-729-424-12 | TRANSISTOR UN2112 | | | |
| Q903 | 8-729-424-08 | TRANSISTOR UN2111 | | | |
| Q904 | 8-729-424-08 | TRANSISTOR UN2111 | | | |
| Q905 | 8-729-424-08 | TRANSISTOR UN2111 | | | |
| Q906 | 8-729-424-08 | TRANSISTOR UN2111 | | | |
| Q907 | 8-729-424-08 | TRANSISTOR UN2111 | | | |
| | | < RESISTOR > | | | |
| R901 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W |
| R902 | 1-216-025-00 | RES,CHIP | 100 | 5% | 1/10W |
| R903 | 1-216-025-00 | RES,CHIP | 100 | 5% | 1/10W |
| R904 | 1-216-025-00 | RES,CHIP | 100 | 5% | 1/10W |
| R905 | 1-216-025-00 | RES,CHIP | 100 | 5% | 1/10W |
| R906 | 1-216-025-00 | RES,CHIP | 100 | 5% | 1/10W |
| R907 | 1-216-025-00 | RES,CHIP | 100 | 5% | 1/10W |
| R908 | 1-216-025-00 | RES,CHIP | 100 | 5% | 1/10W |
| R909 | 1-216-025-00 | RES,CHIP | 100 | 5% | 1/10W |
| R912 | 1-216-025-00 | RES,CHIP | 100 | 5% | 1/10W |
| R913 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R914 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R915 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R916 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R917 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R918 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R919 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R920 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R921 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R922 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R923 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R924 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R925 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R926 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R927 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R928 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R929 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R930 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W |
| R931 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W |
| R932 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W |
| R933 | 1-216-049-11 | RES,CHIP | 1K | 5% | 1/10W |
| R934 | 1-216-025-00 | RES,CHIP | 100 | 5% | 1/10W |
| R935 | 1-216-025-00 | RES,CHIP | 100 | 5% | 1/10W |
| R936 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R937 | 1-216-049-11 | RES,CHIP | 1K | 5% | 1/10W |
| R938 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W |
| | | < SWITCH > | | | |
| S901 | 1-771-470-11 | SWITCH, ROTARY (OPERATION) | | | |
| | | < VIBRATOR > | | | |
| X901 | 1-579-952-21 | VIBRATOR, CERAMIC (8MHz) | | | |
| ********** | | | | | |

**JOINT** **LED** **MAIN**

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| * | 1-671-387-11 | JOINT BOARD | | | | |
| | | ********** | | | | |
| | | < CONNECTOR > | | | | |
| CN151 | 1-691-765-31 | PLUG (MICRO CONNECTOR) 3P | | | | |
| CN152 | 1-691-765-21 | PLUG (MICRO CONNECTOR) 3P | | | | |
| CN153 | 1-564-506-11 | PLUG (MICRO CONNECTOR) 5P | | | | |
| CN154 | 1-691-766-21 | PLUG (MICRO CONNECTOR) 4P | | | | |
| CN155 | 1-564-510-11 | PLUG (MICRO CONNECTOR) 6P | | | | |
| CN156 | 1-691-766-11 | PLUG (MICRO CONNECTOR) 4P | | | | |
| CN157 | 1-691-767-11 | PLUG (MICRO CONNECTOR) 5P | | | | |
| CN158 | 1-564-510-11 | PLUG (MICRO CONNECTOR) 6P | | | | |
| ********** | | | | | | |
| * | 1-670-776-11 | LED BOARD | | | | |
| | | ********** | | | | |
| | | < CONNECTOR > | | | | |
| CN906 | 1-564-505-11 | PLUG, CONNECTOR 2P | | | | |
| | | < DIODE > | | | | |
| D901 | 8-719-046-46 | LED SEL5221S-TH8F (STANDBY) | | | | |
| ********** | | | | | | |
| * | A-4414-844-A | MAIN BOARD, COMPLETE (US, CND) | | | | |
| * | A-4414-846-A | MAIN BOARD, COMPLETE (EXCEPT US, CND) | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| C101 | 1-119-837-11 | ELECT | 100uF | 20% | 63V | |
| C102 | 1-119-837-11 | ELECT | 100uF | 20% | 63V | |
| C103 | 1-119-800-11 | ELECT | 100uF | 20% | 25V | |
| C104 | 1-119-800-11 | ELECT | 100uF | 20% | 25V | |
| C105 | 1-119-801-21 | ELECT | 220uF | 20% | 25V | |
| C106 | 1-119-801-21 | ELECT | 220uF | 20% | 25V | |
| C107 | 1-136-250-11 | FILM | 0.001uF | 5% | 100V | |
| C108 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V | |
| C109 | 1-119-834-11 | ELECT | 22uF | 20% | 63V | |
| C110 | 1-119-834-11 | ELECT | 22uF | 20% | 63V | |
| C111 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V | |
| C112 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V | |
| C113 | 1-136-250-11 | FILM | 0.001uF | 5% | 100V | |
| C114 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V | |
| C115 | 1-136-250-11 | FILM | 0.001uF | 5% | 100V | |
| C116 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V | |
| C117 | 1-136-250-11 | FILM | 0.001uF | 5% | 100V | |
| C119 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V | |
| C120 | 1-136-250-11 | FILM | 0.001uF | 5% | 100V | |
| C201 | 1-119-841-11 | ELECT | 1000uF | 20% | 63V | |
| C202 | 1-119-841-11 | ELECT | 1000uF | 20% | 63V | |
| C203 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V | |
| C204 | 1-126-024-11 | ELECT | 220uF | 20% | 25V | |
| C205 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V | |
| C206 | 1-126-023-11 | ELECT | 100uF | 20% | 25V | |
| C207 | 1-126-023-11 | ELECT | 100uF | 20% | 25V | |
| C208 | 1-119-834-11 | ELECT | 22uF | 20% | 63V | |
| C209 | 1-119-834-11 | ELECT | 22uF | 20% | 63V | |
| C210 | 1-119-834-11 | ELECT | 22uF | 20% | 63V | |
| C301 | 1-125-850-21 | FILM | 220PF | 5% | 50V | |
| C302 | 1-119-834-11 | ELECT | 22uF | 20% | 63V | |
| C303 | 1-125-850-21 | FILM | 220PF | 5% | 50V | |
| C304 | 1-119-830-11 | ELECT | 330uF | 20% | 50V | |
| C305 | 1-119-803-11 | ELECT | 470uF | 20% | 25V | |
| C306 | 1-119-830-11 | ELECT | 330uF | 20% | 25V | |
| C309 | 1-102-978-00 | CERAMIC | 220PF | 5% | 50V | |
| C310 | 1-125-850-21 | FILM | 220PF | 5% | 50V | |
| C315 | 1-125-842-11 | FILM | 4PF | 10% | 50V | |
| C316 | 1-119-837-11 | ELECT | 100uF | 20% | 63V | |
| C317 | 1-137-375-11 | FILM | 0.068uF | 5% | 50V | |
| C318 | 1-137-375-11 | FILM | 0.068uF | 5% | 50V | |
| C319 | 1-136-250-11 | FILM | 0.001uF | 5% | 100V | |
| C320 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V | |
| C401 | 1-125-850-21 | FILM | 220PF | 5% | 50V | |
| C402 | 1-119-834-11 | ELECT | 22uF | 20% | 63V | |
| C403 | 1-125-850-21 | FILM | 220PF | 5% | 50V | |
| C404 | 1-119-830-11 | ELECT | 330uF | 20% | 50V | |
| C405 | 1-119-803-11 | ELECT | 470uF | 20% | 25V | |
| C406 | 1-119-830-11 | ELECT | 330uF | 20% | 25V | |
| C409 | 1-102-978-00 | CERAMIC | 220PF | 5% | 50V | |
| C410 | 1-125-850-21 | FILM | 220PF | 5% | 50V | |
| C415 | 1-125-842-11 | FILM | 4PF | 10% | 50V | |
| C416 | 1-119-837-11 | ELECT | 100uF | 20% | 63V | |
| C417 | 1-137-375-11 | FILM | 0.068uF | 5% | 50V | |
| C418 | 1-137-375-11 | FILM | 0.068uF | 5% | 50V | |
| C419 | 1-136-250-11 | FILM | 0.001uF | 5% | 100V | |
| C420 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V | |
| C501 | 1-125-850-21 | FILM | 220PF | 5% | 50V | |
| C502 | 1-119-834-11 | ELECT | 22uF | 20% | 63V | |
| C503 | 1-125-850-21 | FILM | 220PF | 5% | 50V | |
| C504 | 1-119-830-11 | ELECT | 330uF | 20% | 50V | |
| C505 | 1-119-803-11 | ELECT | 470uF | 20% | 25V | |
| C506 | 1-119-830-11 | ELECT | 330uF | 20% | 25V | |
| C509 | 1-102-978-00 | CERAMIC | 220PF | 5% | 50V | |
| C510 | 1-125-850-21 | FILM | 220PF | 5% | 50V | |
| C515 | 1-125-842-11 | FILM | 4PF | 10% | 50V | |
| C516 | 1-119-837-11 | ELECT | 100uF | 20% | 63V | |
| C517 | 1-137-375-11 | FILM | 0.068uF | 5% | 50V | |
| C518 | 1-137-375-11 | FILM | 0.068uF | 5% | 50V | |
| C519 | 1-136-250-11 | FILM | 0.001uF | 5% | 100V | |
| C520 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V | |
| C601 | 1-125-850-21 | FILM | 220PF | 5% | 50V | |
| C602 | 1-119-834-11 | ELECT | 22uF | 20% | 63V | |
| C603 | 1-125-850-21 | FILM | 220PF | 5% | 50V | |
| C604 | 1-119-830-11 | ELECT | 330uF | 20% | 50V | |
| C605 | 1-119-803-11 | ELECT | 470uF | 20% | 25V | |
| C606 | 1-119-830-11 | ELECT | 330uF | 20% | 25V | |
| C609 | 1-102-978-00 | CERAMIC | 220PF | 5% | 50V | |
| C610 | 1-125-850-21 | FILM | 220PF | 5% | 50V | |
| C615 | 1-125-842-11 | FILM | 4PF | 10% | 50V | |
| C616 | 1-119-837-11 | ELECT | 100uF | 20% | 63V | |
| C617 | 1-137-375-11 | FILM | 0.068uF | 5% | 50V | |
| C618 | 1-137-375-11 | FILM | 0.068uF | 5% | 50V | |
| C619 | 1-136-250-11 | FILM | 0.001uF | 5% | 100V | |
| C620 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V | |
| C701 | 1-125-850-21 | FILM | 220PF | 5% | 50V | |
| C702 | 1-119-834-11 | ELECT | 22uF | 20% | 63V | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C703 | 1-125-850-21 | FILM | 220PF | 5% | 50V |
| C704 | 1-119-830-11 | ELECT | 330uF | 20% | 50V |
| C705 | 1-119-803-11 | ELECT | 470uF | 20% | 25V |
| C706 | 1-119-830-11 | ELECT | 330uF | 20% | 25V |
| C709 | 1-102-978-00 | CERAMIC | 220PF | 5% | 50V |
| C710 | 1-125-850-21 | FILM | 220PF | 5% | 50V |
| C715 | 1-125-842-11 | FILM | 4PF | 10% | 50V |
| C716 | 1-119-837-11 | ELECT | 100uF | 20% | 63V |
| C717 | 1-137-375-11 | FILM | 0.068uF | 5% | 50V |
| C718 | 1-137-375-11 | FILM | 0.068uF | 5% | 50V |
| C719 | 1-136-250-11 | FILM | 0.001uF | 5% | 100V |
| C720 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V |
| | | < CONNECTOR > | | | |
| CN101 | 1-564-510-11 | PLUG (MICRO CONNECTOR) 6P | | | |
| CN102 | 1-691-767-11 | PLUG (MICRO CONNECTOR) 5P | | | |
| * CN201 | 1-506-599-11 | PIN, CONNECTOR (B10P-VH) 10P | | | |
| CN202 | 1-564-241-00 | PIN, CONNECTOR 4P | | | |
| CN203 | 1-691-767-11 | PLUG (MICRO CONNECTOR) 5P | | | |
| CN204 | 1-691-766-31 | PLUG (MICRO CONNECTOR) 4P | | | |
| CN205 | 1-691-765-21 | PLUG (MICRO CONNECTOR) 3P | | | |
| CN301 | 1-564-505-11 | PLUG, CONNECTOR 2P | | | |
| CN302 | 1-691-769-11 | PLUG (MICRO CONNECTOR) 7P | | | |
| CN304 | 1-691-765-11 | PLUG (MICRO CONNECTOR) 3P | | | |
| CN305 | 1-691-765-11 | PLUG (MICRO CONNECTOR) 3P | | | |
| CN401 | 1-564-505-11 | PLUG, CONNECTOR 2P | | | |
| CN402 | 1-691-769-11 | PLUG (MICRO CONNECTOR) 7P | | | |
| CN404 | 1-691-765-31 | PLUG (MICRO CONNECTOR) 3P | | | |
| CN405 | 1-691-765-31 | PLUG (MICRO CONNECTOR) 3P | | | |
| CN501 | 1-564-505-11 | PLUG, CONNECTOR 2P | | | |
| CN502 | 1-691-769-11 | PLUG (MICRO CONNECTOR) 7P | | | |
| CN504 | 1-691-765-11 | PLUG (MICRO CONNECTOR) 3P | | | |
| CN505 | 1-691-765-11 | PLUG (MICRO CONNECTOR) 3P | | | |
| CN601 | 1-564-505-11 | PLUG, CONNECTOR 2P | | | |
| CN602 | 1-691-769-11 | PLUG (MICRO CONNECTOR) 7P | | | |
| CN604 | 1-691-765-21 | PLUG (MICRO CONNECTOR) 3P | | | |
| CN605 | 1-691-765-21 | PLUG (MICRO CONNECTOR) 3P | | | |
| CN701 | 1-564-505-11 | PLUG, CONNECTOR 2P | | | |
| CN702 | 1-691-769-11 | PLUG (MICRO CONNECTOR) 7P | | | |
| CN704 | 1-691-765-41 | PLUG (MICRO CONNECTOR) 3P | | | |
| CN705 | 1-691-765-41 | PLUG (MICRO CONNECTOR) 3P | | | |
| | | < DIODE > | | | |
| D101 | 8-719-402-71 | DIODE MA3180L-TX | | | |
| D102 | 8-719-402-71 | DIODE MA3180L-TX | | | |
| D103 | 8-719-801-78 | DIODE 1SS184 | | | |
| D104 | 8-719-801-78 | DIODE 1SS184 | | | |
| D105 | 8-719-801-78 | DIODE 1SS184 | | | |
| D106 | 8-719-801-78 | DIODE 1SS184 | | | |
| D107 | 8-719-801-78 | DIODE 1SS184 | | | |
| D109 | 8-719-801-78 | DIODE 1SS184 | | | |
| D201 | 8-719-975-85 | DIODE ERB83-004 | | | |
| D202 | 8-719-975-85 | DIODE ERB83-004 | | | |
| D301 | 8-719-118-62 | DIODE RD5.6F-T7B1 | | | |
| D302 | 8-719-800-76 | DIODE 1SS226 | | | |
| D304 | 8-719-800-76 | DIODE 1SS226 | | | |
| D305 | 8-719-801-78 | DIODE 1SS184 | | | |
| D401 | 8-719-118-62 | DIODE RD5.6F-T7B1 | | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| D402 | 8-719-800-76 | DIODE 1SS226 | |
| D404 | 8-719-800-76 | DIODE 1SS226 | |
| D405 | 8-719-801-78 | DIODE 1SS184 | |
| D501 | 8-719-118-62 | DIODE RD5.6F-T7B1 | |
| D502 | 8-719-800-76 | DIODE 1SS226 | |
| D504 | 8-719-800-76 | DIODE 1SS226 | |
| D505 | 8-719-801-78 | DIODE 1SS184 | |
| D601 | 8-719-118-62 | DIODE RD5.6F-T7B1 | |
| D602 | 8-719-800-76 | DIODE 1SS226 | |
| D604 | 8-719-800-76 | DIODE 1SS226 | |
| D605 | 8-719-801-78 | DIODE 1SS184 | |
| D701 | 8-719-118-62 | DIODE RD5.6F-T7B1 | |
| D702 | 8-719-800-76 | DIODE 1SS226 | |
| D704 | 8-719-800-76 | DIODE 1SS226 | |
| D705 | 8-719-801-78 | DIODE 1SS184 | |
| | | < IC > | |
| IC101 | 8-759-296-74 | IC AD712JR-REEL | |
| IC201 | 8-759-111-68 | IC uPC1237HA | |
| | | < JACK > | |
| J101 | 1-785-144-11 | JACK, PIN (INPUT, EXTRA 2CH, L) | |
| J102 | 1-785-144-21 | JACK, PIN (INPUT, EXTRA 2CH, R) | |
| J103 | 1-785-144-11 | JACK, PIN (INPUT, FRONT, L) | |
| J104 | 1-779-491-11 | JACK, PIN 1P (INPUT, CENTER) | |
| J105 | 1-785-144-21 | JACK, PIN (INPUT, FRONT, R) | |
| J106 | 1-785-144-11 | JACK, PIN (INPUT, REAR, L) | |
| J107 | 1-785-144-21 | JACK, PIN (INPUT, REAR, R) | |
| J108 | 1-563-330-11 | JACK (S-LINK, CTRL A1) | |
| J109 | 1-563-330-11 | JACK (S-LINK, CTRL A1) | |
| | | < TRANSISTOR > | |
| Q101 | 8-729-232-69 | FET 2SK208GR3 | |
| Q102 | 8-729-232-69 | FET 2SK208GR3 | |
| Q103 | 8-729-209-15 | TRANSISTOR 2SD2012 | |
| Q104 | 8-729-141-83 | TRANSISTOR 2SB1094-LK | |
| Q105 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q106 | 8-729-201-53 | TRANSISTOR 2SA1015-GR | |
| Q107 | 8-729-201-53 | TRANSISTOR 2SA1015-GR | |
| Q108 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q109 | 8-729-201-53 | TRANSISTOR 2SA1015-GR | |
| Q110 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q111 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q112 | 8-729-201-53 | TRANSISTOR 2SA1015-GR | |
| Q113 | 8-729-201-53 | TRANSISTOR 2SA1015-GR | |
| Q114 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q201 | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA | |
| Q301 | 8-729-045-15 | TRANSISTOR 2SC5169-FG | |
| Q302 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q303 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q304 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q306 | 8-729-271-31 | TRANSISTOR 2SC2713-G | |
| Q308 | 8-729-216-31 | TRANSISTOR 2SA1163-G | |
| Q309 | 8-729-216-31 | TRANSISTOR 2SA1163-G | |
| Q310 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q311 | 8-729-271-31 | TRANSISTOR 2SC2713-G | |
| Q312 | 8-749-010-43 | TRANSISTOR NEN250 | |

# MAIN

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| Q313 | 8-749-010-42 | TRANSISTOR NEP250 | |
| Q314 | 8-729-201-53 | TRANSISTOR 2SA1015-GR | |
| Q315 | 8-729-216-31 | TRANSISTOR 2SA1163-G | |
| Q316 | 8-729-271-31 | TRANSISTOR 2SC2713-G | |
| Q401 | 8-729-045-15 | TRANSISTOR 2SC5169-FG | |
| Q402 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q403 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q404 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q406 | 8-729-271-31 | TRANSISTOR 2SC2713-G | |
| Q408 | 8-729-216-31 | TRANSISTOR 2SA1163-G | |
| Q409 | 8-729-216-31 | TRANSISTOR 2SA1163-G | |
| Q410 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q411 | 8-729-271-31 | TRANSISTOR 2SC2713-G | |
| Q412 | 8-749-010-43 | TRANSISTOR NEN250 | |
| Q413 | 8-749-010-42 | TRANSISTOR NEP250 | |
| Q414 | 8-729-201-53 | TRANSISTOR 2SA1015-GR | |
| Q415 | 8-729-216-31 | TRANSISTOR 2SA1163-G | |
| Q416 | 8-729-271-31 | TRANSISTOR 2SC2713-G | |
| Q501 | 8-729-045-15 | TRANSISTOR 2SC5169-FG | |
| Q502 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q503 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q504 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q506 | 8-729-271-31 | TRANSISTOR 2SC2713-G | |
| Q508 | 8-729-216-31 | TRANSISTOR 2SA1163-G | |
| Q509 | 8-729-216-31 | TRANSISTOR 2SA1163-G | |
| Q510 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q511 | 8-729-271-31 | TRANSISTOR 2SC2713-G | |
| Q512 | 8-749-010-43 | TRANSISTOR NEN250 | |
| Q513 | 8-749-010-42 | TRANSISTOR NEP250 | |
| Q514 | 8-729-201-53 | TRANSISTOR 2SA1015-GR | |
| Q515 | 8-729-216-31 | TRANSISTOR 2SA1163-G | |
| Q516 | 8-729-271-31 | TRANSISTOR 2SC2713-G | |
| Q601 | 8-729-045-15 | TRANSISTOR 2SC5169-FG | |
| Q602 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q603 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q604 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q606 | 8-729-271-31 | TRANSISTOR 2SC2713-G | |
| Q608 | 8-729-216-31 | TRANSISTOR 2SA1163-G | |
| Q609 | 8-729-216-31 | TRANSISTOR 2SA1163-G | |
| Q610 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q611 | 8-729-271-31 | TRANSISTOR 2SC2713-G | |
| Q612 | 8-749-010-43 | TRANSISTOR NEN250 | |
| Q613 | 8-749-010-42 | TRANSISTOR NEP250 | |
| Q614 | 8-729-201-53 | TRANSISTOR 2SA1015-GR | |
| Q615 | 8-729-216-31 | TRANSISTOR 2SA1163-G | |
| Q616 | 8-729-271-31 | TRANSISTOR 2SC2713-G | |
| Q701 | 8-729-045-15 | TRANSISTOR 2SC5169-FG | |
| Q702 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q703 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q704 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q706 | 8-729-271-31 | TRANSISTOR 2SC2713-G | |
| Q708 | 8-729-216-31 | TRANSISTOR 2SA1163-G | |
| Q709 | 8-729-216-31 | TRANSISTOR 2SA1163-G | |
| Q710 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q711 | 8-729-271-31 | TRANSISTOR 2SC2713-G | |
| Q712 | 8-749-010-43 | TRANSISTOR NEN250 | |
| Q713 | 8-749-010-42 | TRANSISTOR NEP250 | |
| Q714 | 8-729-201-53 | TRANSISTOR 2SA1015-GR | |
| Q715 | 8-729-216-31 | TRANSISTOR 2SA1163-G | |
| Q716 | 8-729-271-31 | TRANSISTOR 2SC2713-G | |

< RESISTOR >

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R101 | 1-259-987-11 | CARBON MELF | 220 | 2% 1/8W | |
| R102 | 1-259-987-11 | CARBON MELF | 220 | 2% 1/8W | |
| R103 | 1-260-004-11 | CARBON MELF | 4.7K | 2% 1/8W | |
| R104 | 1-260-004-11 | CARBON MELF | 4.7K | 2% 1/8W | |
| ⚠R105 | 1-212-950-00 | FUSIBLE | 4.7 | 5% 1/2W | F |
| ⚠R109 | 1-212-950-00 | FUSIBLE | 4.7 | 5% 1/2W | F |
| R110 | 1-259-995-11 | CARBON MELF | 1K | 2% 1/8W | |
| R111 | 1-259-995-11 | CARBON MELF | 1K | 2% 1/8W | |
| R113 | 1-260-011-11 | CARBON MELF | 18K | 2% 1/8W | |
| R114 | 1-260-004-11 | CARBON MELF | 4.7K | 2% 1/8W | |
| R118 | 1-260-008-11 | CARBON MELF | 10K | 2% 1/8W | |
| R119 | 1-260-008-11 | CARBON MELF | 10K | 2% 1/8W | |
| R120 | 1-260-020-11 | CARBON MELF | 100K | 2% 1/8W | |
| R121 | 1-260-008-11 | CARBON MELF | 10K | 2% 1/8W | |
| R122 | 1-260-008-11 | CARBON MELF | 10K | 2% 1/8W | |
| R123 | 1-260-020-11 | CARBON MELF | 100K | 2% 1/8W | |
| R125 | 1-260-004-11 | CARBON MELF | 4.7K | 2% 1/8W | |
| R126 | 1-260-011-11 | CARBON MELF | 18K | 2% 1/8W | |
| R128 | 1-260-004-11 | CARBON MELF | 4.7K | 2% 1/8W | |
| R129 | 1-260-011-11 | CARBON MELF | 18K | 2% 1/8W | |
| R131 | 1-260-004-11 | CARBON MELF | 4.7K | 2% 1/8W | |
| R132 | 1-260-011-11 | CARBON MELF | 18K | 2% 1/8W | |
| R133 | 1-260-032-11 | CARBON MELF | 1M | 2% 1/8W | |
| R134 | 1-260-032-11 | CARBON MELF | 1M | 2% 1/8W | |
| R135 | 1-260-032-11 | CARBON MELF | 1M | 2% 1/8W | |
| R136 | 1-260-032-11 | CARBON MELF | 1M | 2% 1/8W | |
| R137 | 1-260-032-11 | CARBON MELF | 1M | 2% 1/8W | |
| R138 | 1-260-032-11 | CARBON MELF | 1M | 2% 1/8W | |
| R139 | 1-259-995-11 | CARBON MELF | 1K | 2% 1/8W | |
| R140 | 1-259-995-11 | CARBON MELF | 1K | 2% 1/8W | |
| R141 | 1-259-995-11 | CARBON MELF | 1K | 2% 1/8W | |
| R142 | 1-259-995-11 | CARBON MELF | 1K | 2% 1/8W | |
| R143 | 1-259-995-11 | CARBON MELF | 1K | 2% 1/8W | |
| R144 | 1-259-995-11 | CARBON MELF | 1K | 2% 1/8W | |
| R145 | 1-259-995-11 | CARBON MELF | 1K | 2% 1/8W | |
| R146 | 1-260-032-11 | CARBON MELF | 1M | 2% 1/8W | |
| R147 | 1-260-004-11 | CARBON MELF | 4.7K | 2% 1/8W | |
| R148 | 1-260-011-11 | CARBON MELF | 18K | 2% 1/8W | |
| R150 | 1-259-983-11 | CARBON MELF | 100 | 2% 1/8W | |
| R151 | 1-259-983-11 | CARBON MELF | 100 | 2% 1/8W | |
| R152 | 1-259-983-11 | CARBON MELF | 100 | 2% 1/8W | |
| R153 | 1-259-983-11 | CARBON MELF | 100 | 2% 1/8W | |
| R154 | 1-259-983-11 | CARBON MELF | 100 | 2% 1/8W | |
| R201 | 1-260-026-11 | CARBON MELF | 330K | 2% 1/8W | |
| R202 | 1-260-026-11 | CARBON MELF | 330K | 2% 1/8W | |
| R203 | 1-260-026-11 | CARBON MELF | 330K | 2% 1/8W | |
| R204 | 1-260-026-11 | CARBON MELF | 330K | 2% 1/8W | |
| R205 | 1-260-026-11 | CARBON MELF | 330K | 2% 1/8W | |
| R206 | 1-260-012-11 | CARBON MELF | 22K | 2% 1/8W | |
| R207 | 1-216-254-00 | CARBON MELF | 220K | 2% 1/8W | |
| R208 | 1-260-018-11 | CARBON MELF | 68K | 2% 1/8W | |
| R209 | 1-260-012-11 | CARBON MELF | 22K | 2% 1/8W | |
| R211 | 1-260-008-11 | CARBON MELF | 10K | 2% 1/8W | |
| R212 | 1-260-008-11 | CARBON MELF | 10K | 2% 1/8W | |

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| ⚠R220 | 1-217-469-00 | RES, FUSE | 1 | 5% | 1W | F |
| ⚠R221 | 1-217-469-00 | RES, FUSE | 1 | 5% | 1W | F |
| R301 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W | |
| R302 | 1-260-017-11 | CARBON MELF | 56K | 2% | 1/8W | |
| R303 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W | |
| R304 | 1-259-987-11 | CARBON MELF | 220 | 2% | 1/8W | |
| R305 | 1-259-987-11 | CARBON MELF | 220 | 2% | 1/8W | |
| R306 | 1-249-218-11 | CARBON | 2.2K | 5% | 1/3W | |
| R307 | 1-260-002-11 | CARBON MELF | 3.3K | 2% | 1/8W | |
| R308 | 1-260-017-11 | CARBON MELF | 56K | 2% | 1/8W | |
| R309 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W | |
| R310 | 1-259-999-11 | CARBON MELF | 2.2K | 2% | 1/8W | |
| R311 | 1-260-020-11 | CARBON MELF | 100K | 2% | 1/8W | |
| R312 | 1-260-028-11 | CARBON MELF | 470K | 5% | 1/8W | |
| R313 | 1-259-987-11 | CARBON MELF | 220 | 2% | 1/8W | |
| R314 | 1-260-001-11 | CARBON MELF | 2.7K | 2% | 1/8W | |
| R315 | 1-259-994-11 | CARBON MELF | 820 | 2% | 1/8W | |
| R316 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W | |
| R317 | 1-249-493-11 | CARBON | 56K | 5% | 1/3W | |
| ⚠R318 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W | F |
| ⚠R319 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W | F |
| ⚠R320 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W | F |
| ⚠R321 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W | F |
| R322 | 1-234-145-11 | ENCAPSULATED COMPONENT | | | | |
| R323 | 1-234-145-11 | ENCAPSULATED COMPONENT | | | | |
| R324 | 1-259-997-11 | CARBON MELF | 1.5K | 2% | 1/8W | |
| R325 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W | |
| R326 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W | |
| R327 | 1-259-988-11 | CARBON MELF | 270 | 2% | 1/8W | |
| R328 | 1-260-011-11 | CARBON MELF | 18K | 2% | 1/8W | |
| ⚠R329 | 1-212-958-00 | FUSIBLE | 10 | 5% | 1/2W | F |
| R330 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W | |
| R331 | 1-259-995-11 | CARBON MELF | 1K | 2% | 1/8W | |
| R332 | 1-259-920-11 | CARBON MELF | 620 | 2% | 1/8W | |
| R333 | 1-260-017-11 | CARBON MELF | 56K | 2% | 1/8W | |
| R401 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W | |
| R402 | 1-260-017-11 | CARBON MELF | 56K | 2% | 1/8W | |
| R403 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W | |
| R404 | 1-259-987-11 | CARBON MELF | 220 | 2% | 1/8W | |
| R405 | 1-259-987-11 | CARBON MELF | 220 | 2% | 1/8W | |
| R406 | 1-249-218-11 | CARBON | 2.2K | 5% | 1/3W | |
| R407 | 1-260-002-11 | CARBON MELF | 3.3K | 2% | 1/8W | |
| R408 | 1-260-017-11 | CARBON MELF | 56K | 2% | 1/8W | |
| R409 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W | |
| R410 | 1-259-999-11 | CARBON MELF | 2.2K | 2% | 1/8W | |
| R411 | 1-260-020-11 | CARBON MELF | 100K | 2% | 1/8W | |
| R412 | 1-260-028-11 | CARBON MELF | 470K | 5% | 1/8W | |
| R413 | 1-259-987-11 | CARBON MELF | 220 | 2% | 1/8W | |
| R414 | 1-260-001-11 | CARBON MELF | 2.7K | 2% | 1/8W | |
| R415 | 1-259-994-11 | CARBON MELF | 820 | 2% | 1/8W | |
| R416 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W | |
| R417 | 1-249-493-11 | CARBON | 56K | 5% | 1/3W | |
| ⚠R418 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W | F |
| ⚠R419 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W | F |
| ⚠R420 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W | F |
| ⚠R421 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W | F |
| R422 | 1-234-145-11 | ENCAPSULATED COMPONENT | | | | |

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| R423 | 1-234-145-11 | ENCAPSULATED COMPONENT | | | | |
| R424 | 1-259-997-11 | CARBON MELF | 1.5K | 2% | 1/8W | |
| R425 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W | |
| R426 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W | |
| R427 | 1-259-988-11 | CARBON MELF | 270 | 2% | 1/8W | |
| R428 | 1-260-011-11 | CARBON MELF | 18K | 2% | 1/8W | |
| ⚠R429 | 1-212-958-00 | FUSIBLE | 10 | 5% | 1/2W | F |
| R430 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W | |
| R431 | 1-259-995-11 | CARBON MELF | 1K | 2% | 1/8W | |
| R432 | 1-259-920-11 | CARBON MELF | 620 | 2% | 1/8W | |
| R433 | 1-260-017-11 | CARBON MELF | 56K | 2% | 1/8W | |
| R501 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W | |
| R502 | 1-260-017-11 | CARBON MELF | 56K | 2% | 1/8W | |
| R503 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W | |
| R504 | 1-259-987-11 | CARBON MELF | 220 | 2% | 1/8W | |
| R505 | 1-259-987-11 | CARBON MELF | 220 | 2% | 1/8W | |
| R506 | 1-249-218-11 | CARBON | 2.2K | 5% | 1/3W | |
| R507 | 1-260-002-11 | CARBON MELF | 3.3K | 2% | 1/8W | |
| R508 | 1-260-017-11 | CARBON MELF | 56K | 2% | 1/8W | |
| R509 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W | |
| R510 | 1-259-999-11 | CARBON MELF | 2.2K | 2% | 1/8W | |
| R511 | 1-260-020-11 | CARBON MELF | 100K | 2% | 1/8W | |
| R512 | 1-260-028-11 | CARBON MELF | 470K | 5% | 1/8W | |
| R513 | 1-259-987-11 | CARBON MELF | 220 | 2% | 1/8W | |
| R514 | 1-260-001-11 | CARBON MELF | 2.7K | 2% | 1/8W | |
| R515 | 1-259-994-11 | CARBON MELF | 820 | 2% | 1/8W | |
| R516 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W | |
| R517 | 1-249-493-11 | CARBON | 56K | 5% | 1/3W | |
| ⚠R518 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W | F |
| ⚠R519 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W | F |
| ⚠R520 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W | F |
| ⚠R521 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W | F |
| R522 | 1-234-145-11 | ENCAPSULATED COMPONENT | | | | |
| R523 | 1-234-145-11 | ENCAPSULATED COMPONENT | | | | |
| R524 | 1-259-997-11 | CARBON MELF | 1.5K | 2% | 1/8W | |
| R525 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W | |
| R526 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W | |
| R527 | 1-259-988-11 | CARBON MELF | 270 | 2% | 1/8W | |
| R528 | 1-260-011-11 | CARBON MELF | 18K | 2% | 1/8W | |
| ⚠R529 | 1-212-958-00 | FUSIBLE | 10 | 5% | 1/2W | F |
| R530 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W | |
| R531 | 1-259-995-11 | CARBON MELF | 1K | 2% | 1/8W | |
| R532 | 1-259-920-11 | CARBON MELF | 620 | 2% | 1/8W | |
| R533 | 1-260-017-11 | CARBON MELF | 56K | 2% | 1/8W | |
| R601 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W | |
| R602 | 1-260-017-11 | CARBON MELF | 56K | 2% | 1/8W | |
| R603 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W | |
| R604 | 1-259-987-11 | CARBON MELF | 220 | 2% | 1/8W | |
| R605 | 1-259-987-11 | CARBON MELF | 220 | 2% | 1/8W | |
| R606 | 1-249-218-11 | CARBON | 2.2K | 5% | 1/3W | |
| R607 | 1-260-002-11 | CARBON MELF | 3.3K | 2% | 1/8W | |
| R608 | 1-260-017-11 | CARBON MELF | 56K | 2% | 1/8W | |
| R609 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W | |
| R610 | 1-259-999-11 | CARBON MELF | 2.2K | 2% | 1/8W | |
| R611 | 1-260-020-11 | CARBON MELF | 100K | 2% | 1/8W | |
| R612 | 1-260-028-11 | CARBON MELF | 470K | 5% | 1/8W | |
| R613 | 1-259-987-11 | CARBON MELF | 220 | 2% | 1/8W | |
| R614 | 1-260-001-11 | CARBON MELF | 2.7K | 2% | 1/8W | |

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

# MAIN PS

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R615 | 1-259-994-11 | CARBON MELF | 820 | 2% | 1/8W |
| R616 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W |
| R617 | 1-249-493-11 | CARBON | 56K | 5% | 1/3W |
| ⚠R618 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W F |
| ⚠R619 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W F |
| ⚠R620 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W F |
| ⚠R621 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W F |
| R622 | 1-234-145-11 | ENCAPSULATED COMPONENT | | | |
| R623 | 1-234-145-11 | ENCAPSULATED COMPONENT | | | |
| R624 | 1-259-997-11 | CARBON MELF | 1.5K | 2% | 1/8W |
| R625 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R626 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W |
| R627 | 1-259-988-11 | CARBON MELF | 270 | 2% | 1/8W |
| R628 | 1-260-011-11 | CARBON MELF | 18K | 2% | 1/8W |
| ⚠R629 | 1-212-958-00 | FUSIBLE | 10 | 5% | 1/2W F |
| R630 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R631 | 1-259-995-11 | CARBON MELF | 1K | 2% | 1/8W |
| R632 | 1-259-920-11 | CARBON MELF | 620 | 2% | 1/8W |
| R633 | 1-260-017-11 | CARBON MELF | 56K | 2% | 1/8W |
| R701 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W |
| R702 | 1-260-017-11 | CARBON MELF | 56K | 2% | 1/8W |
| R703 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W |
| R704 | 1-259-987-11 | CARBON MELF | 220 | 2% | 1/8W |
| R705 | 1-259-987-11 | CARBON MELF | 220 | 2% | 1/8W |
| R706 | 1-249-218-11 | CARBON | 2.2K | 5% | 1/3W |
| R707 | 1-260-002-11 | CARBON MELF | 3.3K | 2% | 1/8W |
| R708 | 1-260-017-11 | CARBON MELF | 56K | 2% | 1/8W |
| R709 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R710 | 1-259-999-11 | CARBON MELF | 2.2K | 2% | 1/8W |
| R711 | 1-260-020-11 | CARBON MELF | 100K | 2% | 1/8W |
| R712 | 1-260-028-11 | CARBON MELF | 470K | 5% | 1/8W |
| R713 | 1-259-987-11 | CARBON MELF | 220 | 2% | 1/8W |
| R714 | 1-260-001-11 | CARBON MELF | 2.7K | 2% | 1/8W |
| R715 | 1-259-994-11 | CARBON MELF | 820 | 2% | 1/8W |
| R716 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W |
| R717 | 1-249-493-11 | CARBON | 56K | 5% | 1/3W |
| ⚠R718 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W F |
| ⚠R719 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W F |
| ⚠R720 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W F |
| ⚠R721 | 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W F |
| R722 | 1-234-145-11 | ENCAPSULATED COMPONENT | | | |
| R723 | 1-234-145-11 | ENCAPSULATED COMPONENT | | | |
| R724 | 1-259-997-11 | CARBON MELF | 1.5K | 2% | 1/8W |
| R725 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R726 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W |
| R727 | 1-259-988-11 | CARBON MELF | 270 | 2% | 1/8W |
| R728 | 1-260-011-11 | CARBON MELF | 18K | 2% | 1/8W |
| ⚠R729 | 1-212-958-00 | FUSIBLE | 10 | 5% | 1/2W F |
| R730 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R731 | 1-259-995-11 | CARBON MELF | 1K | 2% | 1/8W |
| R732 | 1-259-920-11 | CARBON MELF | 620 | 2% | 1/8W |
| R733 | 1-260-017-11 | CARBON MELF | 56K | 2% | 1/8W |
| | | < VARIABLE RESISTOR > | | | |
| RV301 | 1-237-456-11 | RES, ADJ, CARBON 1K | | | |
| RV401 | 1-237-456-11 | RES, ADJ, CARBON 1K | | | |
| RV501 | 1-237-456-11 | RES, ADJ, CARBON 1K | | | |
| RV601 | 1-237-456-11 | RES, ADJ, CARBON 1K | | | |
| RV701 | 1-237-456-11 | RES, ADJ, CARBON 1K | | | |
| | | < RELAY > | | | |
| RY1 | 1-755-062-11 | RELAY | | | |
| RY2 | 1-755-062-11 | RELAY | | | |
| RY3 | 1-755-062-11 | RELAY | | | |
| RY4 | 1-755-062-11 | RELAY | | | |
| RY5 | 1-755-062-11 | RELAY | | | |
| RY6 | 1-755-062-11 | RELAY | | | |
| RY7 | 1-755-062-11 | RELAY | | | |
| RY10 | 1-755-062-11 | RELAY | | | |
| RY16 | 1-755-062-11 | RELAY | | | |
| RY17 | 1-755-062-11 | RELAY | | | |
| RY19 | 1-755-062-11 | RELAY | | | |
| | | < SWITCH > | | | |
| S101 | 1-771-471-11 | SWITCH, SLIDE (OPERATION) | | | |
| ********** | | | | | |
| * | A-4414-845-A | PS BOARD, COMPLETE (US, CND) | | | |
| * | A-4414-847-A | PS BOARD, COMPLETE (EXCEPT US, CND) | | | |
| | | ********** | | | |
| | 2-259-121-01 | SCREW, TR | | | |
| | 4-902-345-01 | HEAT SINK | | | |
| | 4-974-510-01 | SCREW (+BV 3X8 B) | | | |
| | | < CAPACITOR > | | | |
| C807 | 1-119-846-11 | ELECT | 1uF | 20% | 100V |
| C808 | 1-119-815-21 | ELECT | 2200uF | 20% | 35V |
| C809 | 1-119-782-11 | ELECT | 1000uF | 20% | 10V |
| C810 | 1-125-927-11 | ELECT | 18000uF | 20% | 63V |
| C811 | 1-125-927-11 | ELECT | 18000uF | 20% | 63V |
| C812 | 1-136-880-11 | FILM | 2.2uF | 10% | 160V |
| C813 | 1-119-841-11 | ELECT | 1000uF | 20% | 63V |
| C814 | 1-119-841-11 | ELECT | 1000uF | 20% | 63V |
| C816 | 1-119-841-11 | ELECT | 1000uF | 20% | 63V |
| C817 | 1-119-804-21 | ELECT | 1000uF | 20% | 25V |
| C818 | 1-119-841-11 | ELECT | 1000uF | 20% | 63V |
| | | < CONNECTOR > | | | |
| CN804 | 1-691-766-31 | PLUG (MICRO CONNECTOR) 4P | | | |
| CN805 | 1-691-766-11 | PLUG (MICRO CONNECTOR) 4P | | | |
| CN806 | 1-691-767-11 | PLUG (MICRO CONNECTOR) 5P | | | |
| CN807 | 1-564-241-00 | PIN, CONNECTOR 4P | | | |
| CN808 | 1-564-104-00 | PIN, CONNECTOR 3P | | | |
| CN811 | 1-564-320-00 | PIN, CONNECTOR (B2P-VH) 2P | | | |
| CN861 | 1-691-765-41 | PLUG (MICRO CONNECTOR) 3P | | | |
| | | < DIODE > | | | |
| D801 | 8-719-302-38 | DIODE RBV-602-01 | | | |
| D805 | 8-719-200-82 | DIODE 11ES2 | | | |
| D806 | 8-719-200-82 | DIODE 11ES2 | | | |
| D807 | 8-719-200-82 | DIODE 11ES2 | | | |
| D808 | 8-719-200-82 | DIODE 11ES2 | | | |
| D809 | 8-719-200-82 | DIODE 11ES2 | | | |
| D810 | 8-719-302-38 | DIODE RBV-602-01 | | | |

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| D811 | 8-719-929-15 | DIODE RD9.1EB3T | | | |
| | | < IC > | | | |
| IC801 | 8-759-604-35 | IC M5F78M05L | | | |
| IC802 | 8-759-605-03 | IC M5F78M24 | | | |
| | | < RESISTOR > | | | |
| ⚠R816 | 1-212-958-00 | FUSIBLE | 10 | 5% | 1/2W F |
| ⚠R817 | 1-212-958-00 | FUSIBLE | 10 | 5% | 1/2W F |
| ⚠R818 | 1-212-958-00 | FUSIBLE | 10 | 5% | 1/2W F |
| R819 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R822 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R823 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R824 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| ********** | | | | | |
| * | 1-671-975-11 | RY BOARD | | | |
| | | ********* | | | |
| | | < CAPACITOR > | | | |
| C850 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V |
| | | < CONNECTOR > | | | |
| * CN809 | 1-564-242-00 | PIN, CONNECTOR 5P | | | |
| CN853 | 1-691-765-11 | PLUG (MICRO CONNECTOR) 3P | | | |
| | | < DIODE > | | | |
| D850 | 8-719-801-78 | DIODE 1SS184 | | | |
| | | < RELAY > | | | |
| RY851 | 1-755-235-11 | RELAY | | | |
| RY852 | 1-755-235-11 | RELAY | | | |
| ********** | | | | | |
| * | A-4414-832-A | SP BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C802 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V |
| C803 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V |
| C804 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V |
| C820 | 1-164-161-11 | CERAMIC CHIP | 2200PF | 10% | 100V |
| C825 | 1-164-161-11 | CERAMIC CHIP | 2200PF | 10% | 100V |
| C826 | 1-164-161-11 | CERAMIC CHIP | 2200PF | 10% | 100V |
| C829 | 1-164-161-11 | CERAMIC CHIP | 2200PF | 10% | 100V |
| | | < CONNECTOR > | | | |
| CN802 | 1-691-765-21 | PLUG (MICRO CONNECTOR) 3P | | | |
| CN803 | 1-691-765-31 | PLUG (MICRO CONNECTOR) 3P | | | |
| | | < DIODE > | | | |
| D802 | 8-719-801-78 | DIODE 1SS184 | | | |
| D803 | 8-719-801-78 | DIODE 1SS184 | | | |
| D804 | 8-719-801-78 | DIODE 1SS184 | | | |
| | | < COIL > | | | |
| L801 | 1-411-766-11 | COIL, AIR-CORE | | | |
| L802 | 1-411-766-11 | COIL, AIR-CORE | | | |
| L803 | 1-411-766-11 | COIL, AIR-CORE | | | |
| L804 | 1-411-766-11 | COIL, AIR-CORE | | | |
| L805 | 1-411-766-11 | COIL, AIR-CORE | | | |
| | | < TRANSISTOR > | | | |
| Q801 | 8-729-201-53 | TRANSISTOR 2SA1015-GR | | | |
| Q803 | 8-729-281-54 | TRANSISTOR 2SC1815-BL | | | |
| Q804 | 8-729-281-54 | TRANSISTOR 2SC1815-BL | | | |
| Q805 | 8-729-281-54 | TRANSISTOR 2SC1815-BL | | | |
| | | < RESISTOR > | | | |
| R801 | 1-249-162-11 | CARBON | 10 | 5% | 1/3W |
| R802 | 1-249-162-11 | CARBON | 10 | 5% | 1/3W |
| R803 | 1-249-162-11 | CARBON | 10 | 5% | 1/3W |
| R804 | 1-249-162-11 | CARBON | 10 | 5% | 1/3W |
| R805 | 1-249-162-11 | CARBON | 10 | 5% | 1/3W |
| R806 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R807 | 1-260-011-11 | CARBON MELF | 18K | 2% | 1/8W |
| R809 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R810 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R811 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R813 | 1-260-011-11 | CARBON MELF | 18K | 2% | 1/8W |
| R814 | 1-260-011-11 | CARBON MELF | 18K | 2% | 1/8W |
| R815 | 1-260-011-11 | CARBON MELF | 18K | 2% | 1/8W |
| | | < RELAY > | | | |
| RY11 | 1-755-141-11 | RELAY | | | |
| RY13 | 1-755-141-11 | RELAY | | | |
| RY14 | 1-755-141-11 | RELAY | | | |
| | | < TERMINAL > | | | |
| TM801 | 1-694-447-11 | TERMINAL BOARD (SP) (FRONT/REAR SPEAKERS, L) | | | |
| TM802 | 1-694-447-11 | TERMINAL BOARD (SP) (FRONT/REAR SPEAKERS, R) | | | |
| TM805 | 1-694-447-11 | TERMINAL BOARD (SP) (CENTER SPEAKER) | | | |
| ********** | | | | | |
| * | 1-670-769-11 | SW BOARD | | | |
| | | ********* | | | |
| | | < CONNECTOR > | | | |
| CN851 | 1-691-765-11 | PLUG (MICRO CONNECTOR) 3P | | | |
| CN852 | 1-691-765-41 | PLUG (MICRO CONNECTOR) 3P | | | |
| | | < SWITCH > | | | |
| S801 | 1-771-472-11 | SWITCH, SLIDE (SPEAKER IMPEDANCE) | | | |
| ********** | | | | | |
| | | MISCELLANEOUS | | | |
| | | ********** | | | |
| ⚠CNJ801 | 1-559-479-11 | CORD, POWER (US, CND) | | | |
| ⚠CNJ801 | 1-575-953-11 | CORD, POWER (EXCEPT US, CND) | | | |
| ⚠T1 | 1-431-981-11 | TRANSFORMER, POWER (US, CND) | | | |
| ⚠T1 | 1-431-983-11 | TRANSFORMER, POWER (EXCEPT US, CND) | | | |
| ********** | | | | | |

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Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | ********** | |
| | | HARDWARE LIST | |
| | | ********** | |
| #1 | 7-682-547-04 | SCREW +B 3X6 | |
| #2 | 7-682-565-09 | SCREW +B 4X16 | |
| #3 | 7-682-248-09 | SCREW +K 3X8 | |
| #4 | 7-682-148-15 | SCREW, TR | |
| #5 | 7-682-575-04 | SCREW +P 5X10 | |
| #6 | 7-621-775-10 | SCREW +B 2.6X4 | |
| #7 | 7-682-561-09 | SCREW +P 4X8 | |
| #8 | 7-682-547-09 | SCREW +B 3X6 | |

**********

ACCESSORIES & PACKING MATERIALS
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| | | |
|---|---|---|
| | 1-777-172-11 | CORD, CONNECTION |
| | 3-864-981-11 | MANUAL, INSTRUCTION (ENGLISH, FRENCH) (US, CND) |
| | 3-864-981-21 | MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH, DUTCH, SWEDISH, ITALIAN, PORTUGUESE) (EXCEPT US, CND) |



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